# CAPITAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, ISLAMABAD



# Molecular Identification and Phylogenetic Studies of some Passerines of Pakistan based on Cytochrome c Oxidase Subunit I

by

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## Molecular Identification and Phylogenetic Studies of some Passerines of Pakistan based on Cytochrome c Oxidase Subunit I

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# To

# My beloved parents Nazir Ahmad (Late) and Surrya Begum



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#### **CERTIFICATE OF APPROVAL**

This is to certify that the research work presented in the dissertation, entitled "Molecular Identification and Phylogenetic Studies of Some Passerines of Pakistan based on Cytochrome c Oxidase Subunit I" was conducted under the supervision of Dr. Sahar Fazal Malik. No part of this dissertation has been submitted anywhere else for any other degree. This dissertation is submitted to the Department of Bioinformatics & Biosciences, Capital University of Science and Technology in partial fulfillment of the requirements for the degree of Doctor in Philosophy in the field of Bioinformatics. The open defence of the dissertation was conducted on October 27, 2023.

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# List of Publications

It is certified that following publication(s) have been made out of the research work that has been carried out for this dissertation:-

 Fakhra Nazir, Sahar Fazal and Fakhar-i-Abbas, Corvidae in Pakistan are Represented by Two Distinct Clades Revealed through Maternally Inherited Gene Region. Pakistan J. Zool., vol. 55(4), pp 1509-1516, 2022 (DOI: https://dx.doi.org/10.17582/journal.pjz/20211209111259).

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(Fakhra Nazir)

# Abstract

Passeriformes is a species rich and morphologically diverse order among class Aves. It is representing over 60% of the class Aves. It is represented in all terrestrial habitats, distributed all over the world except Antarctica and generally well identified on morphological and molecular bases globally. Species identification and phylogenetic analysis through DNA barcodes using mitochondrial COI gene (cytochrome c oxidase subunit I) was aimed for samples of birds collected from different regions of Pakistan. Mitochondrial DNA was successfully extracted from keel tissue and Folmer region of CO1 gene comprising 650 bps was amplified using universal primers and PCR products were confirmed by 1% agarose gel electrophoresis. Sequencing was carried out by Sanger's method. Sample sequences were analyzed using BLAST at NCBI and BOLD database. Comparison of classical and molecular taxonomy of samples of Passeriformes of Pakistan at family and genus and species level was inferred by referencing the literature by Roberts (1992) for classical taxonomy and BOLD (Barcode of Life Data System) databases for molecular taxonomy. Sequence analysis was performed to establish evolutionary relationship of study data and worldwide species of Passeriformes retrieved from AVIBASE database using MEGAX.

Samples were morphologically identified through available literature as 49 species from 39 genera and 18 family of order Passeriformes Total 43 out of 49 sequences were identified as species of order Passeriformes based on the best matches by comparing their similarity percentage with other sequences in the database. Out of 43 species sequences, 32 were ranging from 97-100% identity with their respective species. Species sequences of 11 were showing similarity < 97% but with other species of same genus. Further verification at molecular level was performed using the Barcode of Life Data System (BOLD). BINs were assigned to 43 sequences representing 42 BINs. Single BIN was assigned to 2 species (*Prinia buchanani Blyth, Prinia hodgsonii Blyth*, BOLD: ACZ2474). Out of these 42 BINs 32 records were taxonomically concordant. Rest of 11 records out of 42 showing unique BINs, as single new record of respective species Passeriformes of Pakistan and have not been submitted from another region of the world in the BOLD database. List of 192 species of order Passeriformes were retrieved from AVIBASE database and phylogenetic relationship was established among 235 barcodes including newly generated 43 sequences of Passeriformes. The comparison revealed changes at different taxonomic levels of 17 species based on our study.

Sequence analysis revealed variation in frequencies of each nucleotide (ATGC) in the barcode region of Passeriformes species of Pakistan at the three codon positions,  $1^{st}$ ,  $2^{nd}$ , and  $3^{rd}$ . K2-parameter distances indicates that that average evolutionary divergence among species of Passeriformes was 0.18 the least average evolutionary divergence was 0.019 among *Lanius isabellinus* and *Lanius collurio* in the same way this average evolutionary divergence among other species of genus Lanius was very low as 0.022 among *Lanius tephronotus* and *Lanius cristatus* the highest was 0.263 among *Rhodospiza obsoleta* and *Ptyonoprogne rupestris* and among *Rhodospiza obsoleta* and *Cercotrichas galactotes*.

Evolutionary analyses showed that the differences in COI sequences were usually higher among the species under family as compared to species under genus. Intraspecific hyplotypes were clustered under monophyletic clades with bootstrap support in the NJ tree. The overall phylogeny of Passeriformes remained same as previous studies, forming similar split ups and clades. All 235 species of Passeriformes were first split into two clades. One comprising of the 5 species *Panurus biarmicus, Aegithalos concinnus, Megalurus palustris, Locustella naevia* and rest of the species in other clade which were further splited into sub clusters bases on the similarity and differences in their COI gene sequences. Species under one genus and species under one family were grouped together in each clade showing the similarity in their COI gene sequences and showing their monophyletic nature. DNA barcoding was proved as an effective tool for species molecular identification and their phylogenetic analysis during this study which may help in identification and biogeographic studies of the birds in future.

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# Abbreviations

BIN	Barcode Index Number system
BLAST	Basic Local Alignment Search Tool
BOLD	Barcode of Life Datasystem
bp	Base Pairs
CBR	Centre for Bioresource Research
CEMB	Centre of Excellence Molecular Biology, University of Punjab, Lahore
COI	Cytochrome c oxidase subunit I
DDT	Dichloro-diphenyl-tri-chloroethane
DNA	Deoxyribonucleic acid
GDA	Genetics Distance Analysis
ICZN	International Commission on Zoological Nomenclature
IUCN	International Union for Conservation of Nature
KPK	Khyber Pakhtunkhwa
MEGA	Molecular Evolutionary genetic Analysis
ME	Minimum Evolution
MP	Maximum Parsimony
mtDNA	Mitochondrion DNA
nDNA	Nuclear DNA
NCBI	National Centre for Biotechnology Information
N-J	Neighbor Joining
PCR	Polymerase Chain Reaction
RAPD	Randomly Amplified Polymorphic DNA
UPGMA	Unweighted Pair Group Method with Arithmetic Mean

# Chapter 1

# Introduction

### 1.1 Theoretical Background

Birds are the most studied group of organisms, especially their origin, biogeography and phylogeny based on molecular data and they act as model for studying phylogeny of animals [1–4].

### 1.1.1 Worldwide Distribution of Avifauna

According to "Bird Life International" over 10,000 species of birds are distributed across the world with majority in continental regions and remaining on islands. They live in vast variety of habitats and are present at the extremes of land elevations and latitudes, but this distribution is uneven [5–7]. Distribution of known land-bird species is as follows: Neotropical realm holds (c.36%), Indomalayan (c.18%), Afrotropical (c.21%), Palearctic (c.10%), Australasian (c.17%), Oceanic (c.2%) and Nearctic (c.8%) realms. Some countries have richest avian diversity with more than 1,500 species each (Colombia, Peru, Brazil, Ecuador and Indonesia) while others with 1,000 species all around (Bolivia, Argentina, Venezuela, Kenya, China, Tanzania, India, Mexico and Congo). Birds being an important component of ecosystems help understand state of that environment [6].

#### 1.1.2 Taxonomy of Aves (Birds)

The birds belong to class Aves which is composed of 34 recognized orders, out of which 25 are extant, and 9 orders are extinct. Among 9 fossil records of 7 orders are available [5] whereas, according to Sibley and Ahlquist [1], the avian class consists of 29 orders. Due to great number of species and populations of Passeriformes, ornithologists have divided birds into two main categories i.e., Passerines and non-Passerines. Based on their variable behavior, ecology and structure they prefer all types of terrestrial habitats [4].

#### 1.1.3 Modern Avian Taxonomy

Taxonomy has witnessed a number of changes since the Linnaeus period starting from degree of similarities existing between different morphological characters and currently it is based on evolutionary relationships possibly existing between different groups of organisms. The skull was the first morphological trait used for classification of the avian species in 1867, to determine the common inherited features for the avian species [8]. The morphological characteristics based classification has now been generally replaced to molecular based classification with focus on genetic variations. The first DNA based taxonomy was conducted on DNA hybridization method [1, 9–11]. Later, DNA sequencing of particular gene loci was used instead of DNA hybridization technique. The evolutionary relationship among all living organisms is now under study all over the world to reconstruct a tree of life based on DNA sequences of organisms. Recently, this approach has changed the taxonomic classifications concept which tries to predict the possible future taxonomic changes through the reconstruction of phylogenetic tree of organisms. On the bases of differences in the skulls of birds the modern birds (Neornithes) have been divided into two groups, viz., Paleognaths (old jaw: Ostrich, Rheas, Cassowaries, Emus, Kiwis, Tinamous), and Neognaths (new jaw: which includes the rest of the living birds). Figure 1.1 shows the broad avian taxonomy groups recognized by bird taxonomists [12, 13].



FIGURE 1.1: Avian taxonomy [14, 15]

The Neognaths are further separated into two main groups, i.e., Neoaves and Galloanserae. Galloanserae are further divided into Galliformes (turkeys, chickens, quail, and other land fowls) and Anseriformes (waterfowl). Neoaves are divided into two subgroups, i.e., Metaves and Coroaves. The Metaves include pigeons and doves as well as sand grouse, kagu, sunbittern, grebes, flamingos, mesites, tropicbirds, nightjars and relatives, swifts, and humming birds [16]. This is a large grouping in which some species show a high degree of relatedness, such as grebes and flamingos, whereas some species might be placed in erroneous taxons. Till now phylogenetic trees based on mitochondrial DNA analysis has placed Metaves group in separated clade as its members have close association among themselves instead of showing association with other groups of birds [17–21]. For example, tropic birds were grouped with accipiters, and kagu grouped with woodpeckers and passerines [20]. Coronaves consist of waterbirds (Family Pelecanae), shorebirds (Family Charadriae) and land birds (Family Passerae) [22].

#### **1.1.4** Passeriformes

The order Passeriformes of class Aves has great diversity being the largest clade of birds with almost 5,740 species or 59% of all living bird under 2057 genera and 9672 species globally [9, 10]. The variation in number of orders of class Aves indicates that this grouping keeps on changing with the new studies using newer methods of taxonomy.

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According to "Birds of the World" checklist 2021 edition the 3824 species of birds from Asia represents the avifauna diversity in this region [23] Passeriformes have a cosmopolitan distribution and inhabit different terrestrial biotopes being variable in behavior, structure, and ecology, and are present in all continents, except Antarctica, with the greatest diversity in the tropical forests [4, 14]. According to Robert [15] 313 species belonging to 36 families of Passeriformes exist over the areas under Pakistan whereas Avibase [24] database reports 497 species of Passeriformes are reported from Pakistan. Most Passerines generally have a very small body and the smallest weigh from 4 to 6 grams, *Regulus regulus* (Goldcrest) and the *Psaltriparus minimus* (American Bushtit). While some are large, the largest passerines weigh up to 1.5 kilogram, are the *Corvus corax* (Common Raven) and *Menura superba* (Lyrebird). The feed of them mainly consist of fruit, seeds, and the nectar. They also prefer spiders, insects, and annelids as food. Passerines have small body size and relatively easy to observe, collect and study, therefore systematics biologist, behavioral ecologists and evolutionary biologists prefer this group for different descriptive and experimental studies [4, 25].

#### 1.1.5 IUCN Status of Passeriformes

IUCN (International Union for Conservation of Nature), global Red list category claims that Passeriformes 60 species has become extinct, 94 are critically endangered, 216 have become endangered, 374 are found vulnerable, 527 mentioned near threatened and 29 lack sufficient data deficient globally [26]. The main threats indicated to this group of birds include agriculture practices like overgrazing of shrubs destroy their habitats [27]. The deforestation results in natural system modification by construction of dams and roads can also cause habitat loss of these birds. The invasive and other problematic species introduced in the system [28] can create competition for food and shelter [29]. Injudicious use of pesticides on crops like DDT (Dichlorodiphenyltrichloroethane) can affect reproductive success of birds by thinning their egg shell and cause life threat to herbivorous birds [30]. Birds are captured for consumption and sports purpose owing to decline in their local population etc. [31]. Passeriformes normally prefer the terrestrial habitat, as forest, grasslands, shrub lands and rocky hilly areas, along with wetlands. This clade of birds is mostly migratory but some are resident too. "The selection of species for study of diversity of Avian depends on the population trend of Passeriformes species which are mostly stable and population trend > 30% decline over three generations or ten years". This quality of species is helping avoid reaching the vulnerability thresholds (http://www.birdlife.org) and the population trend of Passeriformes species was mostly stable (Table 1.1).

Kingdom		Animalia	L
Phylum		Chordate	
Class	Mammals		Aves
Order	Primates	Galliforms	Passeriformes
Family	Hominidae	Phasianidae	Corvidae
Genus	Homo	Gallus	Corvus
Species	Homo sapiens	Gallus gallus	Carvous seplendens

TABLE 1.1: The Classical taxonomy of a range of species

#### 1.1.6 DNA Barcoding

In order to minimize the problems faced by taxonomists in morphology based classification the new approach is introduced by focusing on the sequencing of few loci on mitochondrial genome, generally called as the DNA barcoding. It is relatively rapid genetic method for taxonomic studies that uses standardized genetic markers to identify a species and assesses biodiversity [32]. These markers provide a strong tool for rapid identification and classification of animals and plants without going into morphology-based taxonomic details by just using mitochondrial DNA [33].

The phylogenetic studies of Passeriformes have been observed controversial among different researchers [2]. Phylogenetic relationships among and within families and the genera were reported by multiple studies at molecular level [1, 2, 6, 34–36]. The phylogenetic studies have demanded a detailed analysis of Passeriformes including

the molecular characters, vocalization and morphological traits. In present study we assessed the genetic diversity and phylogenetic relationship among different families of Passeriformes at species level using COI (Cytochrome c oxidase subunit I) genetic marker from mitochondrial DNA (Deoxyribonucleic acid) [34].

Various techniques have been developed and used in the past for analyzing the genome (DNA). The choice of techniques to analyse DNA depends upon the nature of question to addresse, and the material under study. The molecular biologists have extensively utilized COI gene marker for finding the genetic variations among different species of different organism especially birds. DNA barcoding is not only user-friendly, easier, and much convenient but also independent of any previous knowledge of the genome. Hence, very preferable for characterizing those species which are lacking such studies [33].

#### 1.1.7 Mitochondrial Genome

Mitochondrial genome/ DNA (mtDNA) is preferred for DNA barcoding instead of nuclear DNA (nDNA) because it is derived from mother and has a haploid status and shows limited recombination. This makes the track of sequence divergence easier in organisms [37, 38]. The mtDNA has 5-10 time higher chances of mutations than nuclear genome. In past it was thought that mtDNA lack repair activity but multiple repair pathways in mtDNA have been revealed in last four decades research. It includs mismatch repair, break repair in single-strand, excision repair in bases and homologous recombination. These repair pathways function similarly in mtDNA as in nucleus. They are mediated by enzymes and encoded by the nuclear genes and so far in all cases are identified in mammals. Thus mtDNA has greater potential to be used in exploration of phylogenetic and evolutionary relationship of different species [38, 39].

#### 1.1.8 COI gene of Mitochondrial DNA

Different markers in the mitochondrial genome are in use to identify different organisms but COI region has proved to have enough information to classify organisms at species level [32, 33, 40]. Therefore, the main focus of this study was COI gene based molecular characterization of different species of Passeriformes collected from different regions of Pakistan. COI region of mitochondrial genome is a short ( $\sim 600-800$  bp-base pairs) region of mitochondrial gene, present at 5' end, has been used as DNA barcode to identify species of animals [32, 33, 41, 42]. It is very effective in recovering information from small samples because a very large number of copies are present in each cell. Each eukaryotic cell have over 1,000 mitochondria, each possessing 10 copies of the mitochondrial genome, which suggests that a cell may contain more than 10,000 mitochondrial genome copies compared to thier nuclear whole genome. This makes extraction of sufficient quantities of mtDNA easier even from a smaller quantity of tissues available in non-invasive samples of even dried or decayed material available in the field. Therefore a small quantity of mitochondrial DNA sequence, isolated from some decayed, dead, or denatured specimen is enough to amplify the COI sequence in order to differentiate between species [43]. Further, the COI gene can easily be amplified by PCR (Polymerase Chain Reaction) using universal primers for members of different taxa [44]. In DNA based system of species identification, the standardized techniques of DNA extraction, gene amplification (PCR) and sequencing are used for identification of any unknown organism using a library of all organisms present on earth [40, 45].

The mtDNA has been extensively used in phylogenetic studies of the animals as it evolves comparatively at much rapid pace than the nuclear DNA. It results in the rapid sequence change and accumule the differences among closely related species and between populations [8]. First time in the history John Avise has sequenced the mtDNA and identified their sequence divergences and evolutionary history record was provided within species. This has helped find linkage between systematics and population genetics and established the field of phylogeography. Avise along with others researchers found prominent mtDNA divergences among sister species [40, 46].

#### 1.1.9 Molecular Phylogenetic

Phylogenetic is an approach to know the relationships among different taxa by keeping their formal biological classification persistent in order to work out evolutionary lineage of a species [47]. The molecular phylogenetic focuses on studying hereditary differences at genetic level, especially in DNA sequence. It finds evolutionary relationships among different species of organisms based on genetic diversity which can be expressed in a phylogenetic tree [48]. Molecular phylogenetic correlates the molecular evolution as it is the process of highlighting mutations (selective changes) at molecular level (genes or proteins, etc.) which are indicated through various branches of the tree of life [49] developed based on the levels of similarities in the mocular structures.

Comparison of mtDNA trees with the species trees shows general concordance which implies the use of analysis of DNA for specimen idendification insead of morphological based specimen idendification. In the past DNA-based identification has been applied for reconstruction of food webs by identifying food fragments from the stomachs [50] and for recognition of products which were prepared from the protected species of animals [51]. After that Hebert [52] suggested COI region (648-bp) of mtDNA which was consistently differentiating species of multiple group of organism as a standard "DNA barcode" to help in making library of sequences of differen organisms which can be linked to thier vouchered specimens. He further stated that this gene region can easily be recovered and provided sequence divergences as evidence between 13,000 species of animals which were closely related [37]. He also worked on binomials of birds which has been intensively studied and extends the previous investigations of species boundaries now by COI barcodes and created a very firm binomials system [40].

### **1.2** Problem in Focus

The ICZN (International Commission on Zoological Nomenclature) rules have enabled zoologists to name some 1.7 million species, out of total 10 to15 million species expected to be present on this earth. Hebert [33] estimated that as many as 15,000 taxonomists would be required to routinely identify organisms if our dependence on morphological diagnosis is sustained and still they would probably not be able to cover all taxa [42]. The insufficient expertise and knowledge may lead to misidentification of specimens [53]. It is tenuous and time-consuming job to correctly assign a particular species to a taxonomic group [54-56]. Phenotypic plasticity and limited distinguishing morphological characteristics may lead to wrong identification of species. Moreover, morphological identification methods may overlook the existence of cryptic taxa; because such species have no qualitative morphological and/or morphometric data available that help in their identification [57] As an alternate to the morphology-based taxonomic and systematic studies, recent advancement in molecular techniques can facilitate rapid and more reliable taxonomic identification of the species and their systematic organization in the phylogenetic tree [53, 58]. These molecular genetic techniques have been used to address the unresolved controversies regarding phylogenetic relationships arising because of insufficient and conflicting classical taxonomy data about these groups [59]. Keeping to the existing situation regarding status of molecular taxonomy and systematics of the fauna and flora of Pakistan it was planned to employ DNA barcoding to reveal the evolutionary and genetic relationship among different species of Passeriformes of Pakistan.

### 1.3 Gap Analysis

The high success rate of DNA barcodes in characterization of animals in general and the birds in particular, and the major phases of diversification among different species and phylogenetic relationships of order Passeriformes of Pakistan have not yet been extensively studied except only one family Corvidae of this order. Passeriformes, being the largest order of avian fanna and among the most diverse clades of terrestrial vertebrates need to be studied, but the baseline data to monitor changes in the species of this diverse group of birds and to find thier genetic diversity over time is also missing from Pakistan. Limited studies about genetic diversity based on different genetic markers has been reported and only at family level.

### **1.4 Problem Statement**

The outstanding performance of the DNA barcodes to characterize bird species has validated it as a powerful tool to identify the cases which need a deeper scrutiny. Interesting evolutionary characterizations i.e., hybridization, genetic introgression, genetic diversification, recent radiations and cryptic divergence have been represented by the inconsistencies between taxonomy and DNA barcodes. Passeriformes act as a good model for performing biogeographic, phylogenetic, and phylogeographic studies for gaining detailed insights in the process of speciation being the largest order of birds. The extensive analyses of avian evolutionary patterns at a large-scale are also promoted for the growth of a standardized COI sequences based library.

## 1.5 Objectives of Study

The following objectives were planned for this study to settle taxonomic status of Passerines of Pakistan based on molecular genetics:

- To perform a molecular characterization of species of Passeriformes of Pakistan by developing barcode through amplification of Cytochrome c oxidase subunit I (COI).
- To compare the genetic diversity and to establish evolutionary relationship based on COI gene of the different species of Passeriformes from Pakistan and the world.

## 1.6 Research Philosophy

Despite of many years of work in taxonomy, the working biologists still face problem in proper identification of species of different organisms. DNA sequencing has been suggested as a key technology that can make species identification fast and accurate. COI gene of the mitochondrial genome (mtDNA) has already been recognized as an effective marker which can be exploited in molecular identification at species level. Its efficacy has been proved through a number of studies on different taxa. These studies have demonstrated that taxonomic controversies in most species can be resolved by DNA barcoding. DNA barcoding has also been provided ways of identifying cryptic and extinct species and provided support to match adults with immature specimens in recent studies. In future, DNA barcoding may act as a standard tool to identify species. This research will help us to develop a molecular based identification of different Passerine species. It will also help to define the genetic status of different Passerine species and their phylogenetic relationship. The information thus collected can be used in planning a strategy for the future research based management for Passerine conservation, specially controlling illegal trade. The study will also provide basis for future research on the Passerines in Pakistan to maintain a predator-prey balance and thence the smooth flow of the ecosystem in the area. Furthermore, trans-boundary collaboration in research and management of Passerines could be initiated and strengthened.

## 1.7 Research Methodology

In this study 49 species of Passeriformes an order of class Aves were studied using morphological and molecular techniques. Samples were collected and analyzed with focus on COI region of mitochondrial genome used as standard for identifying species of organisms. These steps were followed to achieve study objectives.

• Collection of samples

- Sample collection
- Recording of GPS coordinates
- Preservation of samples
- Morphological characterization of samples
- DNA Extraction
  - Reagent preparation
  - DNA extraction
  - Gel electrophoresis
  - Quality and quantity assessment
- PCR
  - Primer selection
  - Preparation of reaction mixture
  - Confirmation of PCR product
- DNA Sequencing
  - Preparation of sequence reagent
  - Sequencing
  - Purification of sequence reaction
- In Silico Analysis
  - Sequence BLAST Analysis
  - Barcode Index Numbers (BINs) Assignment from BOLD Database
  - Accession Numbers Assignment from NCBI Database
  - Passeriformes of Pakistan List Retrieval from AVIBASE Database
  - Sequence Retrieval from NCBI Database
- Sequence Analysis by MEGAX
  - Multiple Sequence Alignment

- Nucleotide Composition
- Codon Usage Bias
- Variation at Amino Acid Level
- Estimation of Transition / Transversion Bias
- Tajima's Neutrality Test
- Estimation of Evolutionary Divergence
- Phylogenetic Analysis

# Chapter 2

# Literature Review

## 2.1 Motivation of Current Research

DNA barcodes of 41% of known bird species from different geographic areas are available which provide data rich enough for answering the questions about evolution and also offer high quality data which can help in species identification at molecular level [60]. DNA barcoding of birds from Pakistan has not yet attempted at extensive level therefore this study was planned to cover this area of research from Pakistan.

## 2.2 Theory and Background Information

#### 2.2.1 Origin of Passerines Based on Morphological Studies

Ricklefs [61] studied that there are more frequent clades at tribe to family level with five or few species among group of passerine birds than expected by speciation process or extinction. It was suggested through previous analysis that normally clades marginalized ecologically or geographically. The hypothesis was tested for small clades which normally prefer peripheral positions morphologically. The relationship of morphological characters was noticed for seeking some hard substance and feeding in dense vegetation and from perched positions. These findings revealed that clades can protect from extinction by adopting the peripheral space in morphology and ecology.

Managold [62] found phylogenetic affinities among species of family Vangidae on morphological basis. This was first cladistic analysis on morphological basis who excluded several taxa from Vangidae as Calicalicus madagascariensis. It supported the hypothesis that vangas sensu stricto and Australo Papuan are sister taxons forming monophyletic group. DNA based analysis conflict this hypothesis that, bush shrikes and helmet shrikes are close relatives of genus vangas. Therefore, it opens new windows for DNA based studies to cross check the morphological taxonomy of birds.

King [63] studied the passerine birds from four different biogeographic regions based on their morphology to find factors influencing their colonization history. Multivariate analysis was conducted to find answers to the questions of geographical variations effecting species richness and the composition of biota affecting linage with time. The results of the study support the concept that new clades fill the morphological space regarding diversification. Therfore, more studies should be conducted to find geographical variations affecting species richness in particular geographical areas.

Jønsson [64] also analyzed the passerine assemblages in temporally and spatially for their coexistence and conflict the idea of early evolution on the morphological basis in any particular region except two out of four regions. Results indicated that passerine clades are continuously replacing their position in clades without predicting the range of diversification in any region or group. In future, each clade of continental avifauna will occupy morphological space of any region for evolutionary conservatism to fill the ecological niche.

#### 2.2.2 Origin of Passerines based on Molecular Studies

Sibley [65] conducted the first study on classification and reconstruction of phylogeny/molecular taxonomy of living birds by DNA- DNA hybridization method. The UPGMA (Un Weighted Pair Group Method Using Arithmatic Averages) method was used to construct dendrograms from DNAs for 1058 species of living birds with 310 as radiolabeled tracers. The order Passeriformes were classified as Suborder Tyranni (Suboscine) and Suborder Passeri (oscine) whereas the ocines, were further clustered into the corvida and the passerida clads. This study is still used as reference for classification and reconstruction of phylogeny/molecular taxonomy of living birds.

Latter studies by Barker [66] strongly supported phylogenetic tree derived from DNA–DNA hybridization, using sequences of nuclear gene for passerine birds. It revealed the dispersal of passerine to different regions of the world (Eurasia, Australasia, Africa, and New World). However, comparative analysis of passerine diversification and adaptation needs reassessment based on molecular studies.

Oscine super-tree was reconstructed by Jønsson [67] by compiling phylogeny data from 99 published studies. Almost half of all avian diversity is made up oscine passerine birds, but its relationships and classification has been controversial for long. Study on 1723 species of passerine was conducted to estimate their phylogenetic relationships among them. Overall resolution of 83% was observed which fully bi-furcated the tree. However, larger gaps were observed in taxa from Australian region and deep branching was found in Sylvioidea but nine South American oscines remained poorly resolved. It recommends further studies on South American oscines to resolve the issue of their evolutionary relationship. Chaves [68] identified and discriminated Tyrannidae species, focusing on occurring in Cerrado biomes of Brazil and the Atlantic Forest using of DNA barcodes method. Tyrannidae belongs to suboscine family and their diversity has created taxonomic issues based on morphological similarities, although these species were phylogenetically distant. During a study 71 flycatcher species were analysed by sequencing 542 bp of COI gene collected from geographically different locations. The analysis showed that majority of species have exclusive haplotypes, and displayed intraspecific diversity ; interspecific divergence. Among Elaenia obscura individuals, high intraspecific diversity. There is need to find same taxonomic issues based on morphological similarities for oscines too based on DNA barcoding method.

Alstrom [69] estimated the phylogeny of the avian genus Emberiza and other monotypic genera. Results of study support monophyly of Emberizini (Old World), but conflict the sister relationship of Emberizini (New World). Plectrophenax and Calcarius formed a separated clade from other Emberizini. Most of the clades followed the traditional classification. Phylogeny of genus Emberiza should be estimated from other parts of the world too to reconstruct complete evolutionary relationship among species of whole genus. Jønsson [70] have constructed the molecular phylogeny (Oscine family). Oriolidae shoed wide distribution (Australia to the Old World). This study helps in assessment of direction and time of the dispersal for family Oriolidae. The museum specimens (fresh tissue, toe pads) have been processed using nuclear introns and mitochondrial genes from 29 species out of 33 species of Oriolidae. This phylogenetic analysis supports the classical concept of systematics and showed sequence of dispersal. The Oriolidae are poorly adapted in Pacific island life in contrast to other families of birds living in that region.

Ohlson [71] used 219 taxa to find phylogenetic relationship for the New World suboscine using nuclear markers (5) with 6300 bp to estimate their ages. Tyrannida and Furnariida have showed a great divergence while Tityridae, Melanopareiidae and Conopophagidae followed the previous relationships. Further studies needed for other groups of birds to estimate their ages. Ericson [72] conducted studies which proved that order Passeriformes originated from Gondwana. A time-scale was used to find the evolution of passerines major clades and was determined by using fossils record of five passerine with nuclear markers and which updated the status of New Zealand wrens which splited 85–52 Million years ago from Antarctica. Mitchell [73] studied that New Zealand wrens are the sister group of Passeriformes. Pavenksky [4] presented an overview of order Passeriformes and current state of their evolution and phylogeny based on molecular and morphological studies data. It has summarized the results of such studies in the last 25 years. It is being used as reference for future studies on order Passeriformes. Jonsson [74] analyzed the phylogeny of Corvids using multiple nuclear loci. The Corvids are comprised of 800 species, forming a morphologically diverse clade of passerine birds. Baseline phylogeny was established covering biogeographical, macroecologica and macroevolutionary analysis including 667 species. This data helped find

the temporal consistency of families as higher than genera in present taxonomy.

Selvatti [75] have studied the diversification of crown passerines at family-level, based on the phylogenetic hypothesis of unmatched multi calibrated, relaxed clock inference. In a detailed taxon sampling of passerines, the phylogenetic tree has shown that Acanthisittia diverge in the early Paleo-gene which is comparable to the other avian orders by representing a more intense adaptive radiation from all other passerines. This study has shown that Miocene has occupied niches which were left by Tyrannides before they were occupied by any other Oscines. Gibb [76] studied the complete mitochondrial genomes of over 100 passerine species of New Zealand in a phylogenetic context. Dating analyses of this vigorous phylogeny which is supported by the passerine fossil record, have suggested the early Paleocene origin of oscines which were escaped from Australasia. This study has provided data about origin of oscines. Mitchell [73] studied that New Zealand wrens are the sister group of Passeriformes and their study help understand their evolution. Only morphological analyses are present for Acanthisittidae and no genetic analysis available therefore, is a strong need for study on genetic analysis of Acanthisittidae. Marki [77] studied 300 species of Meliphagides the largest Australasian bird group lacking phylogenetic studies. 286 species were analyzed using four nuclear and five mitochondrial markers and novel relationships were established among 60 sequenced species. It shows the importance of genetic studies for phylogenetic analysis to reestablish the evolutionary relationships among species of birds.

## 2.3 Diversity of Passerines of Pakistan

The avian diversity of Passerines in Pakistan was highlighted by following studies in different regions of Pakistan and it was observed that majority of the species under study were belonging to the order Passeriformes.
### 2.3.1 Punjab

Fazal [78] made a comparative study of passerine population with special reference to flora at three old and new city locations in Lahore city during 2008. Decline in passerine avian diversity was recorded due to dense human population affecting breeding sites especially change in trend of plantation of ornamental plants forced the birds to migrate. Relative abundance of native trees in old city has facilitated the increase in passerine population as compared to new parks where exotic plant varieties were introduced. The studies suggest the plantation of native flora in Lahore parks to facilitate the increase in avian population to conserve avian biodiversity.

#### 2.3.2 Sindh

A baseline study was conducted in selected sites of Dhingano-Lakhat Riverine Forests, Sindh, Pakistan to find species diversity and distribution of birds. The field observation and review of literature about avian fauna revealed that 223 species of birds belonging to 19 orders use this area as permanent / seasonal home including both passerine and non-passerines birds and they equally contribute to the avian diversity of the area. Order Passeriformes had dominated the diversity with largest number of species recorded from different location of the study area. This baseline data will help in exploring the diversity of different species of bird and identification of management priorities [79].

#### 2.3.2.1 Avian diversity at Taunsa Barrage

Bibi [80] carried a study at Taunsa Barrage Wildlife Sanctuary during 2009 to 2011 to identify the avian diversity of the area. Direct census method was used to collect, 58,598 bird species from 53 families belonging to 171 species. Five dominant species of the area were *Corvus splendens, Fulica atra, Egretta garzetta, Bubulcus ibis, and Aythya ferina.* A regression analysis showed a decreasing population trend in 14 species. Habitat degradation, illegal hunting and use of pesticide were

identified as main threats to these bird species. Therefore, protection of natural habitat of the area was recommended as an urgent need to protect avian diversity for stable functioning of the ecosystem. Dauda [81] conducted a study at Uchali Wetland, Pakistan to model bird species abundance and evaluated bird species diversity. Data was subjected to Shannon evenness index, Simpson diversity, rank abundance curve to model a diversity analysis using statistics. A total of 25,361 individuals from 47 species of birds, less than observed in the year 1991. The annual species decrease (6.59%) was reported from encountered 192 bird species. There is a need to take actions to conserve avifana of the area.

Ali [82] conducted a study at Keti Bunder, to reassess the avian diversity and the threats to them. For this purpose direct and indirect methods were used to record information about the avian diversity from November, 2015 to February, 2016. About 4280 birds belonging to 49 species were observed and recorded during this survey. The most abundant species of study area were Common coot, Little egret, greater flamingo, cattle egret, and greater egret. It was concluded that major role in decline of avian population in the area under study was the anthropogenic activities especially pollution. Another study was conducted at Langh lake, Sindh, during January-2018 to December-2018 to observe bird species by using binocular  $(8 \times 30)$  and camera. Identification of birds was made by Helam Field Guide, Birds of Pakistan [83] and relative abundance and diversity of birds were recorded. During this study 131 bird species were observed for their response to disturbance in order to control their conservation activities. Out of 14 orders under study Passeriformes was recorded as highest in number and fifty percent of Passeriformes has shown medium response towards disturbance [84]. This shows their cosmopolitan nature and adaptaion in the continuously changing environments.

### 2.3.3 Khyber Pakhatunkhawa (KPK)

Pathan [85] conducted a survey at Swat valley during 2013 to study the avian fauna and the major threats to their populations. Data was collected by interview from local habitants and by observation methods. They recorded 138 species belonging to 13 orders and 48 families with highest population density of 31 species of order Passeriformes. The area being rich with flora and less hunting trends resulted into high population level of migratory and resident avian species in the area.

#### 2.3.4 Gilgit Baltistan

In a study 83 bird species were recorded in year 2010-2012. Species from Passeriformes were dominated. There were more residents than winter visitors and summer visitors. The feeding habit of the birds revealed that there were more omnivorous, followed by carnivorous, insectivorous, granivorous, herbivorous and frugivorous respectively. This effort recommends that the government should declare the key bird areas like the Qurumbar Lake, Qurumbar river and its tributaries as no-hunting zones [86].

### 2.3.5 Azad Jammu and Kashmir (AJK)

A study was conducted from March 2009 - October 2009 to find the avian diversity in Azad Jammu and Kashmir (AJK). Predetermined sites were surveyed in the mornings and evenings to observe birds by using Fixed Point Count and Linetransect methods. Highest number of Passeriformes was recorde out of all 70 bird species recorded [87].

# 2.4 Methods of Molecular Based Studies on Passeriformes

For this purpose a large number of dataset has been generated using molecular sequences for 1,119 genera from 127 families of Passerines to find their genetic diversity and to establish family-level phylogenetic relationship to complement previous limited information on passerines [66, 88–91].

### 2.4.1 DNA-DNA Hybridization

Earlier [92] Johansson has made first study on passerine to find family-level relationships by DNA hybridization. Comparison between passerine ecology and behavior were highlighted by these studies. The nucleotide sequence variations from 69 passerine taxa were analyzed by using the c-mos genes and nuclear RAG-1. In another study on Passerida, the phylogenetic relationships were found by DNA–DNA hybridization technique using 3 nuclear introns. This molecular level study has helped in identifying previously un known relationships.

#### 2.4.2 Nuclear and Mitochondrial DNA Sequences

Chesser [93] studied sub-oscine birds based on mitochondrial as well as nuclear DNA sequences to find their phylogenetic relationships. The current classifications of sub-oscines was separated by comparing the relationships among families and their subfamilies. This study has supported novel features in this phylogeny of sub-oscine. It also revealed some key differences, especially regarding relationships among sub-oscine families and sub-families. The study indicates behavioral evolution of many sub-oscine groups and shown great impact on their reconstruction of character based evolution.

Cebois [94] assessed the passerine "Tapestry" and investigated phylogenetic relationships among the Muscicapoidea a superfamily, a diverse group of songbirds using nuclear RAG-1 gene sequences. The study presented new comparative sequence data for taxon sample. The sequences of Nuclear DNA confirmed the monophyly of muscicapoid group and the sister relationship of Mimidae, and Sturnidae was also supported by this study. Johnson, [95] studied the Passerida and identified first time by DNA–DNA Hybridization data [96]. Phylogenetic relationships among Passerida were found using nuclear introns and monophyly of the group was established.

### 2.4.3 DNA Barcoding

According to Meyer [97] DNA barcoding provides a few sampled datasets to test its promise in species identification. Therefore, a lot of work in DNA barcoding is taking place all over the world to identify different organisms at species level. The following are few examples of barcoding of passerine birds.

According to Wogh [98] majority of species are unidentified because of rise in the rate of extinction and increased monitoring in spite of 250 years of systematics. New proposed technology of DNA sequencing and COI mtDNA gene being barcode for identification of samples has increased the speed of identification of organisms in the last few years. Aliabiden [95] performed DNA barcoding of birds using different markers. It has been proved successful for identification of different samples of organisms at species level based on COI geneof the mitochondrial DNA but sometime fail to delimit the boundaries of closely related sister species. A study was conducted on birds for CO1 gene and they targeted the species that occur hybridized on a Holarctic scale. It was concluded that DNA barcoding some time fail to identify hybridizing parapatric species pairs.

### 2.5 DNA Barcoding of Birds at Global Level

Hebert [40] found that sequence of 648-bp of COI gene of mitochondria might serve as a standardized region for DNA barcoding to identify different species of animal. This tool can help in compiling a public library by a fast and a cheap sequencing method. Barcoding of the bird species from the different areas of the world has taken place to help compile this library. Year wise study details are mentioned below.

### 2.5.1 Korean Birds

A study was conducted on Korean birds in 2006 for 92 bird species to find their COI barcods and average 25 times higher differences were observed within species

than among closely related species. The COI barcodes was proved effective for identification as only one was misidentified out of 239 specimens. A DNA microarray (19-24 bps) has identified 17 species of birds on the nucleotide diversity basis through a high-throughput and sensitive method [99]. This has proved the effectiveness of DNA barcods for identification of previously misidentified species of birds.

#### 2.5.2 Argentina and North American Birds

Five hundred Argentinian birds were barcoded to find patterns of genetic diversity among them. Most of the bird species (southern Neotropical) showed deep divergence in their sequence from their nearest- neighbor. There was high diversity in Neotropical avifauna and genetic splits were recorded 21 species. Shared polymorphisms was lacking in species [100, 101].

### 2.5.3 Scandinavian Birds

Johnsen [96] conducted a comprehensive DNA barcode survey by sequencing COI mitochondrial gene of Scandinavian birds. The samples of 296 bird species were collected and genetic divergences in the sequences of 78 bird species from Scandinavia and the bird species of North America were compared among whose breed range include both. The Scandinavian bird species have shown (94%) unique clusters and the 6% bird species shown overlapped barcodes. The effectiveness of standardized DNA barcoding approach has been highlighted through this study and this will help merge this data with the established data about the avian in the barcode library. Results have showed genetic divergences of unexpected patterns among North American birds through DNA barcoding of COI.

#### 2.5.4 Birds of Turkey

Bilgin [102] used DNA barcoding technique to evaluate the genetic diversity of bird species of Turkey. The total 73 birds have been collected from 33 species which belong to 26 genera. The sequences of COI gene were generated and then compared with COI gene sequences of 301 sequences retrieved from the BOLD Database. Global phylo-geographic comparisons of theses sequences were made to find their taxonomy and intraspecific divergence. The findings of this analysis has highlighted the suitability of this technique for identification of species and compared local genetic variation with the global network.

#### 2.5.5 Birds of Netherlands

Aliabadian [103] has sequenced the COI gene of mitochondria and used it as a marker for species identification of 387 specimens of 147 bird's species from Netherlands. The interspecific divergences average was 9.54% and intraspecific divergences average noted was 0.29%. Unique barcode were represented in 95% of species with 6 species of gulls and shared at least one barcode. *Sylvia curruca* has shown a deep divergence with an average of 5.76% - 8.68% between individuals. In haplotype network analysis two taxa were clearly separated i.e., *S. curruca* and *S. blythi*.

#### 2.5.6 North American Birds

Hebert [40] conducted a study on the birds of North American and differentiated 260 bird species based on variations in their sequences of COI gene. It was found that all these species have a different COI sequence, and this difference is eighteen times greater within species as compared to the species which are closely related. The results indicated the identification of 4 new bird species highlighting the importance of DNA barcoding and helped in compiling the library for the birds of the North American based on the sequences of COI gene.

#### 2.5.7 USA, Canada and North American Birds

Kerr [104] has provided a comprehensive DNA barcode analysis for 643 species of the USA and Canada from North American birds, representing 93% of avi-fauna. The distinct barcode clusters were obtained for 94% of the species and 2% species were representing the cryptic bird species. The results of the study, indicates the constrained mitochondrial intraspecific variation which supports the new concept of limited mitochondrial diversity.

For the birds of North American Kerr [104] primarily used the BirdR1, and BirdF1 primers but FalcoFa, BirdR2, or VertebrateR1 were also used as additional primers if the amplification was not successful. The reason for the BirdF1/R1 primers not always successfully amplify the DNA was the prevented annealing for sequence significant difference between the DNA sequence and primer.

COI sequences of three avian families (Phasianidae, Strigidae, and Accipitridae) were barcoded for 171 individuals and deep genetic splits, distinct geographica clusters, and threshold levels were observed and suggested COI gene as significant evolutionary unit [105].

New Zealand birds of 928 specimens from 180 species of birds along with 1416 sequences from Genbank used to analyse to find taxonomy and evolution. DNA barcodes were 88.5% successfully identified, 13 groups were recently diverged. Character-based identification method was proved more successful than phylogenetic tree and distance based methods [106].

## 2.6 DNA Barcoding of Birds in Asia

### 2.6.1 Road Vehicle Collision Killed Birds in India

Rawankar [107] studied barcoded COI gene of 3 species of Strigiformes reported from Indian subcontinent killed by road vehicle collision. Technique was successful and identified bird species as *Otus bakkamoena*, *Tyto alba*, and *Athene brama* sequences were generated and submitted to the GenBank database.

### 2.7 DNA Barcoding of Birds in Pakistan

Rawankar, [108] studied the unresolved taxonomy of Corvus macrorhynchos using complete mitogenome reported from India and Pakistan. A circular mitochondrial genome of 16,927 bp with nucleotide content of T (24.8%), A (30.6%), C (29.8%), and G (14.8%) was used. Results supported that Corvus macrorhynchos culminates subspecies is genetically distinct and act as separate biospecies. This is a study from Pakistan showing genetic analysis of Corvus macrorhynchos from Corvidae family to find evolutionary relationship with other members of the family. Huang [109] conducted a study on Corvidae family of birds by analyzing the COI gene sequences of 39 species belonging to 12 genera and phylogenetic relationships were identified. K2-parameter distance for these species calculated and 22 times higher average value of genetic distance was observed between the species as compared to within species. The phylogenetic tree was constructed on the bases of Maximum likely-hood. The monophyly nature of the Corvidae was proved through COI gene sequence data.

Khan [110] conducted a study on three different species of crows, jungle crow, house crow, and jackdaw (*C. macrorhynchos, C. splendens, C. monedula*) from Mansehra, Pakistan. An inadequate knowledge about the evolutionary patterns and phylogenetic relationships of corvids is available in Pakistan. The genetic variation among the taxa can be measured by counting morphological and biochemical diversity but polymorphism is at the height in the DNA level studies. The RAPD (Randomly Amplified Polymorphic DNA) analysis was used in this study to estimate the genetic diversity and to establish DNA based phylogenetic relationship among these three species of crow. This is a study from Pakistan in which evolutionary patterns and phylogenetic relationship was established among 3 species of family Corvidae. On the other hand Raza [65] used DNA barcoding for taxonomy studies of Pakistani collared dove at molecular level first time. Phylogenetic tree analysis revealed that Pakistani collared dove, African collared dove, Eurasian collared dove (*Streptopelia roseogrisea, Streptopelia decaocto*) shared a common clade of genus Streptopelia.

### 2.8 Bioinformatics Tools for Sequence Analysis

The following softwares are normally used for phylogenetic trees reconstruction. Phylogenies are estimated through neighbor-joining, UPGMA, maximum parsimony, Bayesian phylogenetic inference, maximum likelihood and distance matrix methods.

For sequence alignment normally ClustalW and MUSCLE is used. ClustalW perform multiple sequence alignment by Distance matrix or nearest neighbour method. MEGA stands for Molecular Evolutionary Genetics Analysis. It uses Distance, Parsimony and Maximum Composite Likelihood Methods. Bayes Phylogenie uses Markov chain Monte Carlo methods to find Bayesian inference, multiple models and mixture model by auto-partitioning. BEAST stands for Bayesian Evolutionary Analysis Sampling Trees. It draws Bayesian inference, relaxed molecular clock and demographic history.

BioNumerics is a Universal platform for the management, storage and analysis of all types of biological data, including tree and network inference of sequence data. It uses Neighbor-joining, maximum parsimony, UPGMA, maximum likelihood, distance matrix methods. It Calculate the reliability of trees/branches using bootstrapping, permutation resampling or error resampling.

MOLPHY finds Molecular phylogenetics of protein or nucleotide by Maximum likelihood method. MrBayes finds Posterior probability estimation through Bayesian inference. PAML stands for Phylogenetic analysis by maximum likelihood. It uses Maximum likelihood and Bayesian inference methods. PAUP performs Phylogenetic analysis using parsimony, distance matrix and maximum likelihood methods. PhyML performs fast and accurate estimation of phylogenies using maximum likelihood [111]. DNA barcoding of birds have been carried out in different parts of world as mentioned above and most of the species in these studies belong to order Passeriformes.

## 2.9 Applications of Study

DNA barcoding studies can help in quick, precise and more reliable identification of different species of organisms of known and unknown specimens against conventional morphological taxonomy. The morphologically identical but reproductively isolated species are called sibling species, and species identification process helps on segregation of sibling species which are difficult to be differentiated using classical taxonomy. Phylogenetic studies are used in undestanding the evolutionary lineage of the species/ evolutionary relationship between species which help in determining the origin and distribution pattern of various species. This study will provide data about molecular characterization of Passeriformes and the phylogenetic relationship among its species collected from different area of Pakistan. This is baseline data and will be used in geographical studies in future and will contribute in construction of worldwide DNA Barcode reference library.

# 2.10 Ongoing and Near Future Trends of DNA Barcoding and Gap Analysis

The concept of DNA barcoding was conceived by Besansky [52] for construction of a library of sequences of all living species after their identification through COI gene as a standardized genetic fragment [42] This helped in the exponential growth of reaching 5 million sequences in the library by 2015. There are more than 47,000 sequences of birds from around 6,000 species all over the word, according to the Barcode of life Database systems (BOLD) accessed in 2016 out of total 10, 473 species [60]. The classical classification of birds is mainly based on their morphological features but their uniform body structure is a great hurdle in this process, therefore DNA structure and biochemical methods have recently been employed to reassess their species status and phylogenetic relationships [112]. The phylogenetic affinities and taxonomic status of group of birds are better understood than other organisms, which make them an ideal group for analysis DNA barcoding as standardized genetic method for species identification [113]. Birds were selected as first group of animals for testing the efficacy of DNA barcoding because of their well-developed classical taxonomy that helped in the estimation of genetic variation and species delineation set by Linnaeus classification [40]. Therefore, a large-scale barcoding study was performed for the first time in 2005 on birds as a taxonomic group [113]. Extensive studies now have been conducted on birds to test the applicability of DNA barcoding [114]. The majority of DNA barcoding birds have been conducted on the Northern Hemisphere species [40, 111]. Therefore, there is a need to identify the worth of DNA barcoding in identifying species accurately from other non-continental regions too where mutation rates, speciation and biogeographic patterns, may be quite different [114].

Investigation of evolutionary process in birds through DNA barcoding covers a set of diverse approaches. The events of recent radiations have been linked to the null or low genetic divergences in the COI regions where noticeable phenotypic differentiations were observed in different species [115]. In some cases, having deep genetic divergence in DNA barcodes within a species further investigation was taken up with other phylogenetic and molecular markers and it was observed that some of these cases deserved new species status as they were showing isolated evolutionary lineage [116]. Moreover, research on DNA barcoding of bird has covered large geographical areas and highlighted the diversifying factors affecting the genetic divergence among them in different biogeographic regions by comparing the patterns of genetic divergence [117–121]. DNA barcoding was also employed to study the evolutionary patterns and mechanisms in mitochondrial gene [96, 116, 119, 122] along with other applications. DNA barcoding of birds have been carried out in different areas of world has been taking place as discussed above but in Pakistan only few species of birds are barcoded. The whole genome of one species of genus corvus i.e., Corvus macrorhynchos (jungle crow) has been studied and three species of crow, C. monedula (jackdaw), C. macrorhynchos (jungle crow), and house crow (C. splendens) based on RAPD (Randomly Amplified Polymorphic DNA) analysis from Mansehra. Phylogenetic studies based Cyto b gene of *Pavo cristatus* (Indian peafowl) has also been studied from Pakistan. Molecular characterization of the Pakistani collared dove was performed through COI gene based DNA barcoding. But still a lot of work in needed to be done on DNA barcoding of birds of Pakistan. Molecular Identification and Phylogenetic analysis of Passeriformes fauna of Pakistan through DNA Barcoding has not yet been attempted [65, 108–110][123–127][128].

# Chapter 3

# Methodology and Techniques

# 3.1 Methodology

A flow diagram to explain the steps of methodology for study is provided below:



FIGURE 3.1: Flow diagram of proposed methodology

The present study was planned to conduct species characterization at molecular level and to find phylogenetic relationship among different species of Passeriformes collected and processed and sequenced from Pakistan and the sequences of species of Passeriformes retrived from NCBI (National Centre for Biotechnology Information) based on cytochrome c oxidase subunit I (COI) region of their mitochondrial DNA.

### **3.2** Sample Collection

A random sampling method was used for collection of the passerine bird specimens of 49 species from different locations of Pakistan based on their availability. Samples were collected from taxidermists and hunters to avoid killing of birds. Each sample labeled properly along with sample ID and GPS coordinates recorded by GPS meter (Garmin eTrex 30x, Kansas, US) details are mentioned in Table 3.1. The collected samples were carried to Molecular Biology and Molecular Ecology Laboratory, Centre for Bioresource Research (CBR), Islamabad, Pakistan for further processing. The fresh tissue samples of size ranging from 0.2-0.5 inches were taken with sharp scalp from keel tissues. These samples were preserved in plastic bottles of size 100 ml containing 70% ethanol and stored at -20° Celsius.

### 3.3 Morphological Characterization

Collected samples were identified bases on their morphological characteristics by consulting morphological keys [15, 129, 130]. Weight, body color & length, wing color & length, tail color & length, bill color & length, eye color (iris), legs & feet color, and nape color were observed. The morphometric data is presented in Appendix A. Specimens were identified as 49 species under 20 families of Passeriformes referencing the T. J. Roberts [15]. The population trend of these 49 species was retrieved from the red list of threatened species from IUCN (https://www.iucnredlist.org/) [131] and their conservation status was noted as "least concerned" according to this list (Table 3.1). The specimens were deposited



FIGURE 3.2: Map showing collection localities of Passerines of Pakistan (GPSbased map on Google Earth)

as preserved voucher at the Museum of Centre for Bioresource Research (CBR), Islamabad, Pakistan.

s.	Species	Common	Location,	Population	GPS Co	ordinates
No.		Name	District	Trend*		
					Latitude	Longitude
					(N)	(E)
1.	Acridotheres	Bank Myna	New Satel-	Increasing	32.054	72.722
	ginginian us		lite Town,			
			Sargodha			
2.	Alauda arvensis	intermedia	Katha Masral,	Decreasing	32.551	72.384
			Khushab			
3.	$Anthus\ richardi$	Richard's Pipit	Fatowal,	Stable	32.241	75.046
			Sialkot			
4.	Anthus trivialis	Tree Pipit	Bhakhrevali,	Decreasing	32.583	74.286
			Gujrat			
5.	Calandrella	Greater Short-	Pipli, Chakwal	No data	32.919	72.647
	brachydactyla	toed Lark				
6.	Carpodacus ery-	Common	Abbotabad	Decreasing	34.148	73.262
	thrinus	Rosefinch				
7.	$Chrsomma\ sinense$	Yellow -eyed	Hastal, Attock	Stable	33.521	72.622
		Babbler				

 TABLE 3.1: Sampling details of Passeriformes species used in this study, including GPS Co-ordinates, location, and population trend

s.	Species	Common	Location,	Population	GPS Co	ordinates
No.		Name	District	Trend*		
					Latitude	Longitude
					(N)	(E)
8.	Cisticola juncidis	streaked fantail	Dharab Dam,	Increasing	32.893	72.662
		warbler	Chakwal			
9.	$Copsychus \ fulica-$	Oriental	Kot Sarang,		33.028	72.365
	tus	Magpie-robin	Chakwal			
10.	$Copsychus \ saularis$	Common	Bagga, Jehlum	Stable	32.897	73.689
	saularis	Raven				
11.	Corvus corax corax		Bawarian	Increasing	32.573	74.19
10	~		Wala, Gujrat			
12.	Corvus	House Crow	Bigardo,	Stable	35.441	75.466
19		Declarer	Skardu	Ct - 1 1 -	22 557	79.979
13.	corvus spienaens	Ruious	Miana Inub,	Stable	33.337	(3.272
14	Den droeitta	Troo pio	Rahman	Stable	22 501	73 446
14.	vaaabunda sat-	fiee pie	A Bad	Stable	33.391	15.440
	uration		Rawalpindi			
15.	Dicrurus leu-		Sanghoi.	No Data	32.85	73.621
	cophaeus		Jehlum			
16.	Emberiza		Dharab, Chak-	Stable	32.916	72.651
	buchanani		wal			
17.	Emberiza lathami	Crested	Karsal, Chak-	Stable	33.105	73.221
		Bunting	wal			
18.	Eremopterix		Pipli, Chakwal	Stable	32.915	72.646
	griseus					
19.	Galerida $cristata$	Crested Lark	Sodhi Jay	Decreasing	32.572	72.291
	arenicola		Wali, Khushab			
20.	Gymnoris xantho-	Chestnut-	Pipli, Chakwal	Stable	32.919	72.654
	$collis\ xantho collis$	Shouldered-				
		Bush Sparrow				
21.	Hypsipetes leuco-	Black Bulbul	Abasin River	Stable	33.932	72.244
	cephalus		Kund Park,			
22	I amina anh anh	Long to lod	Nowshehra	No Doto	22.014	79.645
22.	Lanius schach	Shriko	Fipii, Chakwai	No Data	52.914	72.045
<u>93</u>	Lanius vittatus	Bay-backed	Nekapura	Stable	32 484	74 545
20.	Dannas Vittatas	Shrike	Sialkot	Stable	02.404	14.040
24.	Melanocorupha bi-	Shiriko	Katheel Houn.	Stable	33.582	73.491
	maculata		Rawalpindi			
25.	Oriolus oriolus	Eurasian	Chitral (Kunar	Stable	35.845	71.791
		Golden Oriole	River)			
26.	Orthotomus suto-	Common Tai-	Numbal,	Stable	33.432	73.534
	rius	lor bird	Rawalpindi			
27.	Parus major	Great Tit	Nathigali,	Increasing	34.072	73.39
			Rawalpindi			

S.	Species	Common	Location,	Population	GPS Co	ordinates
No.		Name	District	Trend*	Latitude (N)	Longitude (E)
28.	Passer rutilans ru- tilans	Russet Spar- row	Pipli, Chakwal	Stable	32.918	72.654
29.	Passer hispan- iolensis	Spanish Spar- row	Dir	Decreasing	35.209	71.873
30.	Sturnus roseus	Rosy Starling	Gujjo, Thatta	No data	24.744	67.811
31.	Pericrocotus cin- namomeus	Small Minivet	Indus River, Attock	Stable	33.923	72.308
32.	Phoenicurus ochruros	Black/ Indian Redstart	Dharab Dam, Chakwal	Increasing	32.91	72.676
33.	Phylloscopus affi- nis	Tickell's Leaf- Warbler	Kahuta, Rawalpindi	Stable	33.593	73.46
34.	Seicercus xan- thoschistos	Grey hooded warbler	Pipli, Chakwal	Stable	32.919	72.649
35.	Prinia buchanani	Blyth	Thoa Bahadur, Chakwal	No data	32.944	72.702
36.	Prinia hodgsonii Blyth	Grey-breasted Prinia	Pipli, Chakwal	Stable	32.918	72.655
37.	Prinia socialis so- cialis	Ashy Prinia	Dharab Dam, Chakwal	Stable	32.913	72.677
38.	Pycnonotus leucogenys	Himalayan Bulbul	Pipli, Chakwal	Increasing	32.919	72.653
39.	Stachyris pyrrhops	Black-chinned babbler	DHA, Islam- abad	Stable	33.51	73.135
40.	Sturnus vulgaris	Common star-	Pind Dadan Khan,	Jehlum	32.482	72.923
41.	Sylvia curruca cur- ruca	Lasser Whitethroat	Chumbi, Chak- wal	Stable	32.79	72.716
42.	Tephrodornis pondicerianus	Common Woodshrike	Chumbi, Chak- wal	Stable	32.81	72.728
43.	Terpsiphone para- disi paradise	Asian/Indian Paradise-	Murree, Rawalpindi	Stable	33.921	73.461
44.	Garrulax lineatus lineatus	Streaked Laughing thrush	Barsat, Gilgit	Stable	36.156	72.676
45.	Urocissa flavi- rostris flavirostris	Yellow-billed Blue Magpie	Kahuta, Rawalpindi	Stable	33.593	73.462
46.	Zosterops palpebro- sus palpebrosus	Oriental White	Kahuta, Rawalpindi	Decreasing	33.592	73.46
47.	Alauda gulgula australis	Oriental Sky- lark	New Satel- lite Town, Sargodha	Decreasing	32.06	72.723

s.	Species	Common	Location,	Population	GPS Coo	ordinates
No.		Name	District	Trend*		
					Latitude	Longitude
					(N)	(E)
48.	My ophonus	Blue	Pipli, Chakwal	Decreasing	32.918	72.653
	caerule us	Whistling-				
		Thrush				
49.	$Oen an the\ picata$	Variable	Pipli, Chakwal	Stable	32.918	72.649
		Wheatear				

\* Population trend of species under study according to IUCN red list of threatened species (www.iucnredlist.org) and GPS coordinates were recorded by GPS meter(Garmin eTrex 30x, Kansas, US).

## **3.4** Genomic DNA (gDNA) Extraction

The phenol-chloroform protocol for Genomic DNA extraction was used for DNA extraction of each tissue sample with some modifications [132, 133] according to the sample and lab conditions for getting the gene sequence for subsequent sequence analysis [128]. Working area was decontaminated prior to DNA extraction with 10% Clorox solution (Bleach) to minimize decontamination and all scissors, scalps and forceps were washed with 70% alcohol and sterilized by flaming till red hot.

Following procedure was carried out for DNA extraction.

- 1. Tissues samples of 0.2-0.5 inches size were washed with distilled water to remove the contaminants.
- Then samples were placed in 300 μL lysis solution (10 mM Tris-HCl, 100 mM NaCl, 10 mM EDTA, pH 8.0), 40 μL of 10% SDS (Appendix B).
- 3. A volume of 37ul of 1M DTT and 37  $\mu$ l proteinase K (20 mg/ml) were also added to this solution and incubated the samples at 56 0C for 4-5 hours for protein digestion.
- 4. The upper aqueous solution was transferred to clean Eppendorf tubes following centrifugation at 13000 rpm for 10 minutes and an equal phenol volume was added to it.

- The solution was gently mixed by hands and again centrifuged at 10000 for 8 minutes.
- 6. The upper aqueous solution was transferred to clean Eppendorf tubes and chloroform: isoamyl: alcohol (25:24:1) in equal volume was added to this solution.
- Again mixture was centrifuged for next 08 minutes at 10,000 xg after proper mixing.
- 8. Supernatant of solution was carefully drawn off to new tubes.
- 9. Ice chilled isopropanol (99%) to the tubes was added and kept for precipitation at 40C for next 4 hours.
- Samples were centrifuged again for 10-15 minutes at 10-14,000 xg to separate the precipitated DNA.
- 11. Then precipitated DNA was washed with 70
- 12. DNA in 30  $\mu$ l of TE buffer (pH8.0) was re-suspended with 20  $\mu$ g/ml of RNase and stored at -200C until further processing.

### 3.5 Gel Electrophoresis

For extracted gDNA confirmation, agarose gel (1%) was prepared and electrophoresis was done on gel electrophoresis apparatus (Labnet. International, USA). Gel was prepared by adding 1g agarose powder in 100mL of 0.5X Tris Borate EDTA (TBE) buffer and then boiling on hot plate (IKA-Combimag RCT, Janke & Kunkel GmbH & Co.KG) to completely dissolve the gel. After boiling, cooling of gel was allowed for few minutes and then  $30\mu$ L of Ethidium Bromide was added for florescence. Gel was allowed then into casting tray to solidify.

After solidification of gel, comb allowed to be removed and placed in a gel tank already filled with 0.5X TBE buffer. Then  $3\mu$ L genomic DNA was mixed with  $3\mu$ L bromophenol blue as a tracking dye and loaded in each well to run at 100 voltage electric current for a time limit of 25-30 min. Gel was then visualized by using Gel Documentation System (Alpha Innotech, Taiwan) and gel images were saved as DNA bands on computer with labeled propelyr for future use.

## 3.6 Quantity/Quality Assessment of gDNA

DNA quantification was carried out through spectrophotometer (584A Diod Array Spectrophotometer, Hewlett-Packard, USA). The extracted DNA solution absorbance was recorded at the value having a wavelength of 260nm and 280nm. For this purpose  $10\mu$ L of DNA sample was mixed with  $990\mu$ L TE buffer and absorbance was recorded on spectrophotometer. The OD288 value was measured on spectrophotometer [134]. The quantity of gDNA was measured in "ng/ $\mu$ L" using following formula;

$$DNA concentration(\mu g/\mu L) = \frac{A260 \times DF}{1000}$$

In the above formula A260 is absorbance at the wavelength of 260 nm, the dilution factor (DF) with 50 constant as a coefficient for extinction. Quality (purity) ratio of the extracted DNA was obtained by dividing absorbance of samples at 260 nm by absorbance at 280 nm.

### 3.7 Polymerase Chain Reaction (PCR)

After DNA extraction, selected regions of mitochondrial genome, i.e. folmer region of CO1 gene comprising  $\sim 650$  bp from the first half of the mitochondrial DNA was selected for amplification as adopted in many subsequent studies [40, 44, 135].

### 3.7.1 Primer Selection

A pair of Universal primers (BirdF1/BirdR1) was selected for the amplification of COI region of DNA [136]. Primers were supplied by (Oligo, MACRO GEN (Seoul, Republic of Korea). Universal primer BirdF1 was used as forward primer and BirdR1 was used as reverse primer for COI gene amplification of 650 bp and in case of problem Falco1 was used as forward primer and Bird R2 and Vertebrate R1 were used as reverse primers. The product size along other primers is listed in the Table 3.2.

Primer Name	Sequence (5' to 3')	Target	Amplicon
		Gene	Size (bp)
BirdF1	TTCTCCAACCACAAAGACATTGGCAC		
BirdR1	ACGTGGGAGATAATTCCAAATCCTG		
FalcoF	ATCAACAAACCACAAAGACATCGGCAC	CO1	$\sim\!650$
BirdR2	ACTACATGTGAGATGATTCCGAATCCAG		
VertebrateR1	TAGACTTCTGGGTGGCCAAAGAATCA		

TABLE 3.2: Primers and amplicon size (bp) used for amplification of COI gene

### 3.7.2 Primer Dilution

PCR water was added to primers obtained in lyophilized form to get  $100\mu$ L of each primer of the pair. This stock solution was mixed properly by repeated up and down movement of tubes. The primer dilutions were then stored as  $-20^{\circ}$ C.

### 3.7.3 Reaction Mixture

PCR reaction mixture of  $25\mu$ L was prepared by mixing 1x reaction buffer, 1.5mM MgCl<sub>2</sub>, 0.2mM dNTPs, 5pmol Primers (both forward and reverse) and  $1.5U/\mu$ L Taq DNA polymerase (Thermoscientific), deionized water (Serva Electrophoresis, Germany) and  $5\mu$ L of DNA sample was used. The mixture was short spinned in centrifuged for proper mixing of all ingredients (Table 3.3).

TABLE 3.3: Reaction mixture used for gene amplification during PCR

Reaction	Mixture	Stock Solution Con-	Conce	ntration in	Volum	e in
Components		centration	$25 \mu L$ Reaction		$25\mu\mathbf{L}$	Reaction
			Mixtu	re	Mixtu	$re(\mu L)$
Taq Buffer		10X	1X		2.5	

Reaction	Mixture	Stock Solution Con-	Concentration in		Volume	e in
Componen	its	centration	$25\mu\mathbf{L}$	Reaction	$25\mu\mathbf{L}$	Reaction
			Mixtu	re	Mixtur	$e(\mu L)$
$MgCl_2$		25mM	$2.5 \mathrm{Mm}$		3.0	
dNTPS		$10 \mathrm{mM}$	$0.2 \mathrm{mM}$		0.5	
Taq pol.		$5\mathrm{U}/\mu\mathrm{L}$	$0.1 \mathrm{U}/\mu$	L	0.5	
Primer (F)		100pmol	0.25pm	ol	1.25	
Primer (R)		100pmol	0.25pm	ol	1.25	
DMSO					2.0	
Template					5	
$\rm PCR \ H_2O$					9	
Total					25.0	

TABLE 3.3: Reaction mixture used for gene amplification during PCR

### 3.7.4 PCR Cycle Profile

Polymerase chain reaction was carried out in PCR sprint thermal cycler (Thermoelectron Corporation, USA). Thermo cycler undergoes three stages: at first denaturation of the DNA was done at 94°C for 5mins. Second stage consists of 35 cycles in which further denaturation was done at 94°C for 1 min, primers annealing with their respective region of DNA at 48°C for 1 min and the process of elongation was done at 72°C for 2 min. Stage three, the extension process consisted of 1 cycle in which further extension of the target region was done at 72°C for 5min. The PCR profile is listed in Table 3.4.

### 3.7.5 Confirmation of PCR Product

For confirmation of the PCR amplified product the process of gel electrophoresis was done by using, 1% agarose gel which was prepared by following the above gel preparation steps. For size estimation of amplified product the 100 base pairs (bp) DNA ladder (Solis Bio Dyne Estonia; Figure 3.3) was also loaded into the first well along with the samples to analyze the amplicon size. The gel was allowed to run for 30-40min at the given voltage of 100 volts. Gel was visualized under the Gel Documentation System. The remaining PCR product was stored at -20°C in freezer until further processing.

Stages	Cycle conditions	Temperature	Time (min)	No.	of cy-
		$(^{o}C)$		$\mathbf{cles}$	
1	Initial denaturation	94	5	1	
	Denaturation	94	1		
2	Primer Annealing	48	1	2	
	Elongation	72	2		
3	Extension	72	5	1	

TABLE 3.4: Details of PCR profile used for DNA amplification



FIGURE 3.3: The DNA ladder having twelve fragments with sizes ranging from 100bp to 3000bp.

## 3.8 DNA Sequencing

After confirmation of amplification, PCR products were sent to CEMB (Centre of Excellence Molecular Biology, University of Punjab, Lahore) for DNA sequencing. Sequencing was done by using Sanger's method [137].

### 3.9 In Silico Analysis

### 3.9.1 Bioinformatics Tools and Biological Databases

The following software and databases were used for data retrieval and phylogenetic sequence analysis of data. Details of these tools and databases are given below.

### 3.9.1.1 Bio Edit Software Version 7.0.2

It is software with tools used for creating and editing biological sequences. This tool was used to trim the nucleotide sequences of species of Passeriformes under study and sequences were converted into FASTA format.

#### 3.9.1.2 BLAST Program

BLAST (The Basic Local Alignment Search Tool) help in finding the homologous regions between sequences at local level (https://blast.ncbi.nlm.nih.gov/Blast.cgi) [138]. The protein or nucleotide sequences were compared through this program to the other sequence from different databases and the statistical significance was calculated for matches. BLAST also helps in inferring evolutionary relationships between sequences. Blast analysis was performed for sequences under study to find their best matches with other submitted sequences from different areas of world in different databases to identify them.

#### 3.9.1.3 NCBI (The National Centre for Biotechnology Information)

The NCBI (www.ncbi.nlm.nih.gov) is a branch of UNSNLM (the United States National Library of Medicine) a part of NIH (National Institutes of Health). NCBI database provide access to the genomic and biomedical information to advance health and science knowledge. BLAST option was used at NCBI database to find the homology of sequences under study.

#### 3.9.1.4 GenBank Database

The GenBank is a part of INSD (International Nucleotide Sequence Database) collaboration and provide up-to-date information about DNA sequences. The three organizations DDBJ (DNA DataBank of Japan), ENA (the European Nucleotide Archive), and GenBank at NCBI exchange their data on daily basis. During Blast analysis the sequences under study were aligned with the sequences present in these databases. Worldwide data of nucleotide sequences of Passeriformes was also retrieved from this database for phylogenetic analysis.

#### 3.9.1.5 BOLD Systems

BOLD (Barcode of life Data Systems) (www.Boldsystems.org) [139] is a database designed and devoted specifically for generation of sequences and DNA barcode data application. It also provides an online platform for analysing DNA sequences [140, 141]. BOLD includes more than 542,000 species and their 5.9 million data of DNA sequences (DNA barcode). Sequences under study were then submitted to BOLD Systems and Barcode Index numbers (BINs) were assigned to them.

#### 3.9.1.6 AVIBASE- The World Bird Database

Avibase (avibase.bsc-eoc.org) [142] is an information system about databasing of birds of the world. It maintains records of more than 10000 species along with 22000 subspecies. It organizes bird distribution and taxonomic global data online from the publishers of avian taxonomic. The website offers many checklists for different regions of the world having more than 20,000, species. Data about all species of order Passeriformes reported from Pakistan was collected for further analysis from this website.

#### 3.9.1.7 CLUSTALW

Clustal www.genome.jp/tools/clustalw [143] is a program widely used in Bioinformatics in multiple versions based on the type of algorithm used to perform multiple sequence alignment [144]. The improved version of ClustalW was released in 1994, including allowing individual sequences to be weighted down or up according to or respectively in a partial alignment. It applies various ways to improve progressive alignment algorithm based on divergence or similarity in sequences during alignment [145]. In this study ClustalW was used for sequence alignment of both amino acid and nucleotide sequences before further analysis of sequences.

#### 3.9.1.8 MEGA Software

MEGA (Molecular Evolutionary Genetics Analysis) software is computer based and conducting molecular evolution analysis statistically and phylogenetic trees are constructed. Updated versions of MEGA are available on the MEGA website (www.megasoftware.net) [146]. Being widely used and cited the software was selected for phylogenetic analysis of sequences under study. In this study MEGAX was used for multiple sequence alignment, computing nucleotide compositions, computing the genetics distance between species (GDA) and phylogenetic tree reconstruction. The methods for constructing phylogeny are available as Minimum Evolution (ME), Neighbour-Joining (NJ), UPGMA, and Maximum Parsimony (MP). These methods can be used for finding the true tree using 11 different models. Each method to generate a phylogenetic tree was compared to determine which model can make a tree with fewer anomalies. The method selected for constructing phylogeny was Neighbour-Joining (NJ) method with p-distance model for sequences under study.

### 3.10 Sequence BLAST Analysis

The sequence analysis was done by Bio Edit software Version 7.0.2 (bioedit.informer .com) [147] for converting sequences into the FASTA format. The fined peak sequences were selected for the analysis while with noise one sequenced again. The sequences peaks after proof reading were subjected to BLAST (blast.ncbi.nlm.gov) [138] at NCBI GenBank portal to identify the specimens of these sequences under

study [148]. The sequences were identified as species of Passeriformes using the nucleotide Blast program (Table 4.5) on the bases of similarity percentage (%) among sequences.

# 3.11 Barcode Index Numbers (BINs) Assignment from BOLD Database

It is an online framework for generating a BIN web page of each cluster of a barcode sequence after applying well established algorithms to form OTU (operational taxonomic units) that are closely related to species. It forms a curated registry which is integrated with an online database of taxonomic data and specimens (http://v3.boldsystems.org/) [139, 141] which assign unique BINs to each cluster and index in such regimented way that genetically identical taxa from different studies reside under shared identifiers registered in the Barcode of Life Data System (BOLD). The barcode index number system clusters COI sequence data into operational taxonomic units (OTUs) called BINs (Barcode Index Numbers), independent of prior taxonomic assignment [144]. As such it provided a confirmation of the concordance between different clusters of barcode sequences for species designations [149].

In this analysis 49 records of COI region of mitDNA samples of Passeriformes were selected and 43 were with BINs representing 42 BINs. These BINs were further categorized into taxonomically concordant and singletons. Concordant Taxonomy means multiple samples showing same taxonomy therefore same BIN was assigned to multiple samples submitted from different regions of the world to BOLD database. Singletons were the ones whose only one species sample was submitted.

# 3.12 Accession Numbers Assignment from NCBI Database

The sequences of 43 species of Passeriformes were submitted to NCBI database and accession numbers were assigned to these sequences (Table 4.2).

# 3.13 Passeriformes of Pakistan List Retrieval from AVIBASE Database

The AVIBASE database was searched for species of Passeriformes reported from Pakistan. The list of Passeriformes was downloaded. The 49 species were sequenced during this study on the bases of their availability during study period. But other reported species were not sequenced in laboratory therefore the sequences of these species of Passeriformes were searched on the NCBI database.

## 3.14 Sequence Retrieval from NCBI Database

The NCBI data bank for gene sequences was mined for available mitochondrial gene sequences of Passeriformes species for COI, regions. The database was searched with keywords "species name", "mitochondria" and "COI". The sequences of COI were downloaded in FASTA format. In NCBI web portal database, nucleotide option was selected, where species name along with required mitochondrial gene or accession number of sequence (if known) was entered then entered the gene bank option to obtain the required gene sequence. Then these sequences were uploaded at MEGAX for further analysis.

Sequences of COI gene of the Passeriformes species from areas of the world were retrieved from NCBI database for the purpose of phylogenetic analysis of these species of Passeriformes. Out of 474 species (https://avibase.bsc-eoc.org) of Passeriformes reported from Pakistan, the sequences of only 192 species from different areas of the world were available and retrieved from NCBI. Details of these species are shown in Table 3.5 accession no. were retrieved from NCBI and conservation status was retrieved from AVIBASE database (https://avibase.bsc-eoc.org/) and red list of the threatened species at IUCN (https://www.iucnredlist.org/) [131].

s.	Scientific Name	Common Name	Accession	Conservation
No.			no.	status
1	Pitta brachyura	Indian Pitta	AB843703	Least Concerned
2	Aegithina tiphia	Common Iora	JQ173906	Least Concerned
3	Pericrocotus cinnamo-	Small Minivet	EU541461.1	Least Concerned
	meus			
4	Lanius collurio	Red - backed Shrike	MH938034	Least Concerned
5	Lanius isabellinus	Isabelline Shrike	GQ482020	Least Concerned
6	Lanius cristatus	Brown Shrike	GQ482013	Least Concerned
7	Lanius tephronotus	Gray - backed Shrike	EF621598	Least Concerned
8	Lanius excubitor	Great Gray Shrike	JF498786	Least Concerned
9	Lanius minor	Lesser Gray Shrike	KX283124	Least Concerned
10	Oriolus chinensis	Black - naped Oriole	GQ482278	Least Concerned
11	Dicrurus macrocercus	Black Drongo	JQ174696	Least Concerned
12	Dicrurus hottentottus	Hair - crested Drongo	JQ174691	Least Concerned
13	Rhipidura aureola	White - browed Fantail	JQ176131	Least Concerned
14	Hypothymis azurea	Black - naped Monarch	KC354929	Least Concerned
15	Garrulus glandarius	Eurasian Jay	GQ481963	Least Concerned
16	Urocissa erythroryncha	Red - billed Blue -	JQ176603	Least Concerned
		Magpie		
17	Pica pica	Eurasian Magpie	GQ482478	Least Concerned
18	Nucifraga caryocatactes	Eurasian Nutcracker	$\mathrm{GU571501}$	Least Concerned
19	Pyrrhocorax pyrrhocorax	Red - billed Chough	GQ482576	Least Concerned
20	Pyrrhocorax graculus	Yellow - billed Chough	GQ482571	Least Concerned
21	Corvus monedula	Eurasian Jackdaw	GQ481647	Least Concerned
22	Corvus frugilegus	Rook	GQ481640	Least Concerned
23	Panurus biarmicus	Bearded Reedling	GU571521	Least Concerned
24	Ammomanes deserti	Desert Lark	FJ465300	Least Concerned
25	Eremopterix nigriceps	Black - crowned Spar-	MF580208	Least Concerned
		row - Lark		
26	Eremophila alpestris	Horned Lark	GQ481854	Least Concerned

TABLE 3.5: Details of species of Passeriformes whose sequences retrieved from NCBI database

S.	Scientific Name	Common Name	Accession	Conservation
No.			no.	status
27	$Calandrella\ acutirostris$	Hume's Lark	GQ481412	Least Concerned
28	$Calandrella\ rufescens$	Lesser Short - toed	GQ481420	Least Concerned
		Lark		
29	Riparia riparia	Bank Swallow	GQ482616	Least Concerned
30	Riparia diluta	Pale Sand Martin	GQ482609	Least Concerned
31	Ptyonoprogne rupestris	Eurasian Crag - Mar-	GQ482570	Least Concerned
		an		
32	Ptyonoprogne fuligula	Rock Martin	$\rm MF580225$	Least Concerned
33	Hirundo rustica	Barn Swallow	KY754510	Least Concerned
34	Hirundo smithii	Wire - tailed Swallow	GU460335	Least Concerned
35	Cecropis daurica	Red - rumped Swallow	GQ481533	Least Concerned
36	Delichon urbicum	Common House - Mar-	GQ481695	Least Concerned
		an		
37	Delichon dasypus	Asian House - Martin	GQ481692	Least Concerned
38	$Culicicapa\ ceylon ensis$	Gray - headed Canary	JQ174591	Least Concerned
		- Flycatcher		
39	$Cephalopyrus\ flammiceps$	Fire - capped Tit	JX221707	Least Concerned
40	Periparus ater	Coal Tit	JX508791	Least Concerned
41	$Periparus\ rubidiventris$	Rufous - vented Tit	HQ228194	Least Concerned
42	Lophophanes dichrous	Gray - crested Tit	HM185314	Least Concerned
43	Cyanistes cyanus	Azure Tit	GQ481683	Least Concerned
44	Parus monticolus	Green - backed Tit	JX849735	Least Concerned
45	Remiz pendulinus	Eurasian Penduline -	$\mathrm{GU572079}$	Least Concerned
		Tit		
46	Aegithalos concinnus	Black - throated Tit	HQ605288	Least Concerned
47	Sitta cashmirensis	Kashmir Nuthatch	KJ467143	Least Concerned
48	Sitta tephronota	Eastern Rock	KJ467157	Least Concerned
		Nuthatch		
49	Sitta frontalis	Velvet - fronted	KJ467146	Least Concerned
		Nuthatch		
50	Chondroma muraria	Wallcreeper	GQ482777	Least Concerned
51	Certhia hodgsoni	Hodgson's Treecreeper	KP282529	Least Concerned
52	$Troglodytes \ troglodytes$	Eurasian Wren	KP772837	Least Concerned
53	Cinclus cinclus	White - throated Dip-	GU571819	Least Concerned
		per		
54	Cinclus pallasi	Brown Dipper	GQ481589	Least Concerned
55	Pycnonotus cafer	Red - vented Bulbul	JF498897	Least Concerned

S.	Scientific Name	Common Name	Accession	Conservation
No.			no.	status
56	Pycnonotus jocosus	$\operatorname{Red}$ - whiskered Bulbul	KX529958	Least Concerned
57	Regulus regulus	Goldcrest	GQ482599	Least Concerned
58	Cettia cetti	Cetti's Warbler	GQ481547	Least Concerned
59	Phylloscopus humei	Hume's Warbler	$\mathrm{GU572031}$	Least Concerned
60	Phylloscopus griseolus	Sulphur - bellied War-	MK360480	Least Concerned
		bler		
61	Phylloscopus collybita	Common Chiffchaff	KU870799	Least Concerned
62	$Phylloscopus\ trochiloides$	Greenish Warbler	GQ482461	Least Concerned
63	Phylloscopus magnirostris	Large - billed Leaf Warbler	HQ608867	Least Concerned
64	Phylloscopus reguloides	Blyth's Leaf Warbler	HQ608865	Least Concerned
65	Iduna caligata	Booted Warbler	GQ481975	Least Concerned
66	Iduna rama	Sykes's Warbler	KJ453177	Least Concerned
67	Hippolais languida	Upcher's Warbler	KJ453167	Least Concerned
68	Acrocephalus melano-	Moustached Warbler	GQ481267	Least Concerned
69	Acrocephalus agricola	Paddyfield Warbler	GU571212	Least Concerned
70	Acrocephalus concinens	Blunt - winged War-	KJ453132	Least Concerned
	1	bler		
71	Acrocephalus dumetorum	Blyth's Reed Warbler	AB893942	Least Concerned
72	Acrocephalus scirpaceus	Eurasian Reed War- bler	GQ481283	Least Concerned
73	Acrocephalus arundi- naceus	Great Reed Warbler	FR847226	Least Concerned
74	$Acrocephalus\ stentoreus$	Clamorous Reed War- bler	KJ453157	Least Concerned
75	Megalurus palustris	Striated Grassbird	JF957023	Least Concerned
76	Locustella naevia	Common Grasshopper - Warbler	GU571955	Least Concerned
77	Prinia crinigera	Striated Prinia	HQ608884	Least Concerned
78	Prinia gracilis	Graceful Prinia	KU722459	Least Concerned
79	Prinia flaviventris	Yellow - bellied Prinia	HQ608883	Least Concerned
80	Prinia inornata	Plain Prinia	KT240052	Least Concerned
81	Sylvia nana	Asian Desert Warbler	JQ176322	Least Concerned
82	Sylvia nisoria	Barred Warbler	GU572123	Rare/Accidental
83	Sylvia crassirostris	Eastern Orphean War- bler	GU571644	Least Concerned

s.	Scientific Name	Common Name	Accession	Conservation
No.			no.	status
84	Sylvia mystacea	Menetries's Warbler	JQ176321	Least Concerned
85	Sylvia communis	Greater Whitethroat	GU572120	Least Concerned
86	Pomatorhinus ery-	Rusty - cheeked Scimi-	JQ175951	Least Concerned
	throgenys	tar - Babbler		
87	Laticilla burnesii	Rufous - vented Prinia	MK069051	Near-threatened
88	Pellorneum ruficeps	Puff - throated Bab-	JQ175707	Least Concerned
		bler		
89	Alcippe poioicephala	Brown - cheeked Ful- vetta	JQ173957	Least Concerned
90	Argya earlei earlei	Striated Babbler	MH265887	Least Concerned
91	Turdoides malcolmi	Large Gray Babbler	KC439341	Rare/Accidental
92	Trochalopteron erythro-	Chestnut - crowned	MH265810	Least Concerned
	cephalum	Laughingthrush		
93	Heterophasia capistrata	Rufous Sibia	EU447047	Least Concerned
94	Leiothrix lutea	Red - billed Leiothrix	JF498868	Least Concerned
95	Muscicapa sibirica	Dark - sided Fly-	GQ482226	Least Concerned
		catcher		
96	Muscicapa dauurica	Asian Brown Fly- catcher	GQ482216	Least Concerned
97	Muscicapa striata	Spotted Flycatcher	GU571987	Least Concerned
98	Cercotrichas galactotes	Rufous - tailed Scrub -	MF580191	Least Concerned
		Robin		
99	Copsychus malabaricus	White - rumped	JF498845	Least Concerned
		Shama		
100	Cyornis rubeculoides	Blue - throated Fly-	JQ174627	Least Concerned
		catcher		
101	Niltava sundara	Rufous - bellied Nil-	JQ175559	Least Concerned
		tava		
102	Muscicapa thalassina	Verditer flycatcher	EF422241	Least Concerned
103	Luscinia megarhynchos	Common Nightingale	JQ175293	Rare/Accidental
104	Luscinia svecica	Bluethroat	KC789641	Least Concerned
105	Calliope pectoralis	Himalayan	KU973748	Least Concerned
		Rubythroat		
106	Tarsiger cyanurus	Red - flanked Bluetail	GQ482758	Rare/Accidental
107	Tarsiger chrysaeus	Golden Bush - Robin	JQ176404	Least Concerned
108	$Ficedula\ strophiata$	Rufous - gorgeted Fly-	JQ174846	Least Concerned
		catcher		

s.	Scientific Name	Common Name	Accession	Conservation
No.			no.	status
109	Ficedula albicilla	Taiga Flycatcher	GQ481891	Rare/Accidental
110	Ficedula parva	Red - breasted Fly-	GU571893	Least Concerned
		catcher		
111	Phoenicurus frontalis	Blue - fronted Redstart	JX970703	Least Concerned
112	Phoenicurus erythronotus	Rufous - backed Red-	GQ482382	Least Concerned
		start		
113	Phoenicurus phoenicurus	Common Redstart	$\mathrm{GU572026}$	Rare/Accidental
114	Phoenicurus erythrogas-	White - winged Red-	GQ482376	Least Concerned
	trus	start		
115	Monticola saxatilis	Rufous - tailed Rock -	GQ482171	Least Concerned
		Thrush		
116	$Monticola\ solitarius$	Blue Rock - Thrush	JQ175415	Least Concerned
117	Saxicola maurus	Siberian Stonechat	GQ482623	Least Concerned
118	$Saxicola\ caprata$	Pied Bushchat	JQ176180	Least Concerned
119	Saxicola ferreus	Gray Bushchat	JQ176181	Least Concerned
120	Oenanthe albonigra	Hume's Wheatear	DQ683479	Least Concerned
121	Oenanthe oenanthe	Northern Wheatear	$\mathrm{GU571994}$	Least Concerned
122	Oenanthe lugens	Mourning Wheatear	HM046870	Least Concerned
123	Oenanthe finschii	Finsch's Wheatear	$\rm MF795487$	Least Concerned
124	Oenanthe pleschanka	Pied Wheatear	$\mathrm{GU571995}$	Least Concerned
125	$Oen an the \ xan tho prymna$	Red - tailed Wheatear	JX255949	Least Concerned
126	Oenanthe deserti	Desert Wheatear	KP252229	Least Concerned
127	Oenanthe isabellina	Isabelline Wheatear	JF498802	Least Concerned
128	Zoothera dauma	Scaly Thrush	EF515802	Least Concerned
129	Turdus viscivorus	Mistle Thrush	GQ482883	Least Concerned
130	Turdus iliacus	Redwing	$\mathrm{GU572145}$	Near-threatened
131	Turdus merula	Eurasian Blackbird	MK262687	Least Concerned
132	Turdus ruficollis	Red - throated Thrush	GQ482870	Least Concerned
133	Sturnus contra	Asian Pied Starling	KC439338	Least Concerned
134	$Sturnia\ pagodarum$	Brahminy Starling	EU525542	Least Concerned
135	$Sturnia\ malabarica$	Chestnut - tailed Star-	JQ176301	Least Concerned
		ling		
136	Acridotheres tristis	Common Myna	AY666196	Least Concerned
137	Acridotheres fuscus	Jungle Myna	EF484196	Least Concerned
138	$Dicaeum\ erythrorhynchos$	Pale - billed Flower-	KJ442637	Least Concerned
		pecker		
139	Aethopyga siparaja	Crimson Sunbird	MH929095	Least Concerned

s.	Scientific Name	Common Name	Accession	Conservation
No.			no.	status
140	Prunella collaris	Alpine Accentor	AB843102	Least Concerned
141	Prunella himalayana	Himalayan Accentor	GQ482565	Least Concerned
142	Prunella fulvescens	Brown Accentor	GQ482563	Rare/Accidental
143	Prunella atrogularis	Black - throated Ac-	GQ482560	Least Concerned
		centor		
144	Motacilla cinerea	Gray Wagtail	JF957025	Least Concerned
145	Motacilla flava	Western Yellow Wag-	$\mathrm{GU571985}$	Least Concerned
		tail		
146	Motacilla citreola	Citrine Wagtail	GQ482203	Least Concerned
147	Motacilla alba	White Wagtail	KY754516	Least Concerned
148	Anthus godlewskii	Blyth's Pipit	GQ481341	Least Concerned
149	Anthus campestris	Tawny Pipit	KP252167	
150	Anthus pratensis	Meadow Pipit	$\mathrm{GU571732}$	Near-threatened
151	Anthus hodgsoni	Olive - backed Pipit	GQ481349	Rare/Accidental
152	Anthus cervinus	Red - throated Pipit	$\mathrm{GU571250}$	Rare/Accidental
153	Anthus spinoletta	Water Pipit	GQ481365	
154	Anthus rubescens	American Pipit	GQ481358	
155	Bombycilla garrulus	Bohemian Waxwing	$\mathrm{GU571754}$	Rare/Accidental
156	Hypocolius ampelinus	Hypocolius	KP252196	Rare/Accidental
157	Fringilla coelebs	Common Chaffinch	MK262511	Least Concerned
158	Fringilla montifringilla	Brambling	GU571404	Least Concerned
159	Coccothraustes coc-	Hawfinch	GU571829	Least Concerned
	cothraustes			
160	Carpodacus rubicilla	Great Rosefinch	GQ481529	Least Concerned
161	Carpodacus thura	Himalayan White -	EU847701	Least Concerned
		browed Rosefinch		
162	Leucosticte nemoricola	Plain Mountain -	GQ482053	Least Concerned
		Finch		
163	$Leucosticte\ brandti$	Black - headed Moun-	GQ482049	Least Concerned
		tain - Finch		
164	Rhodospiza obsoleta	Desert Finch	FJ465359	Least Concerned
165	Linaria flavirostris	Twite	GQ481479	Least Concerned
166	Linaria cannabina	Eurasian Linnet	GQ481455	Least Concerned
167	Loxia curvirostra	Red Crossbill	GU571958	Least Concerned
168	Carduelis carduelis	European Goldfinch	MK262089	Least Concerned
169	Serinus pusillus	Fire - fronted Serin	GQ482639	Least Concerned
170	Spinus spinus	Eurasian Siskin	GQ481495	Rare/Accidental

s.	Scientific Name	Common Name	Accession	Conservation
No.			no.	status
171	Emberiza melanocephala	Black - headed	JQ174776	Least Concerned
		Bunting		
172	Emberiza bruniceps	Red - headed Bunting	KC439313	Least Concerned
173	Emberiza calandra	Corn Bunting	$\mathrm{GU571867}$	Rare/Accidental
174	Emberiza fucata	Chestnut - eared	JF499130	Least Concerned
		Bunting		
175	Emberiza cia	Rock Bunting	GQ481747	Least Concerned
176	Emberiza godlewskii	Godlewski's Bunting	GQ481766	Least Concerned
177	$Emberiza\ stewarti$	Chestnut - breasted	KP877676	Least Concerned
		Bunting		
178	Emberiza leucocephalos	Pine Bunting	GQ481772	Least Concerned
179	Emberiza hortulana	Ortolan Bunting	KX283114	Rare/Accidental
180	$Emberiza\ striolata$	Striolated Bunting	$\rm MF580175$	Least Concerned
181	$Emberiza\ schoeniclus$	Reed Bunting	$\mathrm{GU571874}$	Least Concerned
182	Emberiza aureola	Yellow - breasted	EF515786	Critically endan-
		Bunting		gered
183	Emberiza pusilla	Little Bunting	$\mathrm{GU571872}$	Least Concerned
184	Emberiza rutila	Chestnut Bunting	GQ481805	Least Concerned
185	Passer domesticus	House Sparrow	MK262682	Least Concerned
186	Passer moabiticus	Dead Sea Sparrow	$\rm MF767304$	Least Concerned
187	Passer montanus	Eurasian Tree Sparrow	JF957028	Least Concerned
188	Petronia petronia	Rock Sparrow	GQ482355	Least Concerned
189	Carpospiza brachydactyla	Pale Rockfinch	FJ465315	Least Concerned
190	$Montifringilla\ nivalis$	White - winged	GQ482176	Least Concerned
		Snowfinch		
191	Lonchura punctulata	Scaly - breasted Munia	JF498874	Least Concerned
192	Lonchura malabarica	Indian silverbill	MF580167	Least Concerned

## 3.15 Sequence Analysis by MEGAX

Sequence data was used for phylogenetic analysis using MEGAX software [150]. CLUSTALW software [145] was used for the multiple sequence alignment of 43 samples sequenced in laboratory for species of Passeriformes and 192 sequences of species of Passeriformes retrieved from NCBI database. The program MEGAX
was used to find nucleotide composition, Codon Usage Bias, Variations at Amino acid level, Nucleotide transition / transversion bias, Tajima's Neutrality Test, Evolutionary Divergences and inference phylogenetic relationships among different species by the neighbor-joining method. Kimura-2-parameter was used for the estimation of nucleotide distances between the sequence pairs calculated the diversities by the nucleotide substitution model [151, 152]. The phylogenetic analysis was performed of 235 sequences of COI gene of mitDNA of Passeriformes at both nucleotide and amino acid level. The following different analyses were performed for nucleotide sequences of COI gene of mitDNA of Passeriformes samples using different bioinformatics tools.

# 3.15.1 Multiple Sequence Alignment

ClustalW (www.custal.org/omega/) [145] a bioinformatics tool was used for sequence alignment before reconstruction of Phylogenetic tree. Collectively 235 nucleotide sequences were aligned using 43 sequences of Passeriformes species collected from different areas of Pakistan and 192 sequences of worldwide sequence data of Passeriformes species retrieved from NCBI database, and phylogenetic tree was reconstructed to find closely related species. All these sequences were aligned with default parameters i.e., Gap opening Penalty 15 and Gap extension Penalty 6.66 for Pair wise and Multiple Alignment by ClastalW. DNA weight Matrix was selected 1.6, transition weight was 0.5 and delay divergent cut off (%) was 30 whereas negative matrix was off. Then file was exported as MEGA format and phylogeny option was selected for further analysis as shown in Appendix C.

#### 3.15.2 Nucleotide Composition

MEGAX was used to calculate the nucleotide composition of each Thymine (T), Adenine (A), Guanine (G) and Cytosine (C)) for each available selected region of the COI gene, of order Passeriformes, the average frequency of nucleotide was calculated. The nucleotide frequency at codon  $1^{st}$ ,  $2^{nd}$ ,  $3^{rd}$  positions was also calculated. Nucleotide composition of an organism reveals its genome. GC content varies among species and has several implications. It determines the nucleotide frequencies, codon and their amino acid usage. Nucleotide composition is similar among the species living in the same environments therefore help in determining the association among close groups in their phylogeny [153, 154].

### 3.15.3 Codon Usage Bias

Codon usage bias for COI genes was estimated using MEGAX software. It provides the average frequency of relative synonymous usage of each codon in the gene.

## 3.15.4 Variations at Amino Acid Level

The sequence alignment of protein of the COI gene loci of mitDNA was performed which have been widely used in species identification and taxonomic studies. The protein sequence analysis of this gene was done by using translation option in MEGAX software. Total 235 Nucleotide sequences of Passeriformes species were included in analysis. Regions of greater or lesser variations in the sequence were examined at each amino acid position to identify variable and conserve sequences within gene. The translated sequences were aligned using ClustalW from the online program (http://www.genome.jp/tools/clustalw/) [145]. All of the protein sequences were converted from nucleotide sequences using MEGAX program. The quality of COI gene of each sequence was checked by selection of only the coding sequences and was further proved to minimize sequence errors. Same procedure was followed for 235 nucleotide sequences of species of Passeriformes to find phylogenetic relationship among them (Appendix F).

The sequences composition of amino acid of the COI loci from 235 species of Passeriformes including 43 sequenced and 192 downloaded from NCBI Gen Bank were selected for calculation of conserved and variable sites through MEGAX software. A variable site can be parsimony-informative or singleton because it contains two different types of amino acids on the other hand a site that is not variable is referred as a conserve/constant site. The Variation and the conservation in the protein sequences are proved useful for identification of species and help in designing the primers either universal or species specific. COI genes of 43 species of order Passeriformes were sequenced and uploaded in MEGAX (Molecular Evolutionary Genetics Analysis) version 10.0 [150] and their amino acid sequences were obtained by using option of translated protein sequences on MEGAX to find the total conserved and variable sites in each sequence.

MEGAX software was used to compute the synonymous and non-synonymous mutations in the sequences. For this purpose conservative, variable, parsive informative and singleton sites were computed for 43 amino acid sequences. Same procedure was followed for 235 amino acid sequences of species of Passeriformes to compute synonymous and non-synonymous mutations among them.

#### 3.15.5 Estimation of Transition / Transversion Bias

Transition means one purine exchanges with another or one pyrimidine with another while, transversion means a purine exchanges to one pyrimidine or vice versa. The nucleotide transition/transversion bias of COI gene in Passeriformes was estimated using MEGAX. It involved 235 nucleotide sequences including 43 newly generated COI sequences of Passeriformes of Pakistan and 192 COI sequences of other Passeriformes retrieved from NCBI GenBank. All the gaps and missing data from the sequences were eliminated during the analysis. The average nucleotide transition/transversion bias (R) in COI gene was 2.26 and 51.3383% sites were found to be evolutionary invariable.

#### 3.15.6 Tajima's Neutrality Test

Tajima's Neutrality Test was created by a Japanese scientist Fumio Tajima [155]. It discriminates between DNA sequences that are evolving randomly and those evolving under the influence of any environmental factor (e.g. genetic drift). For a sequence to be evolving randomly, the value of D must be zero. In the analysis 235

nucleotide sequences of Passeriformes involved.  $1^{st}$ ,  $2^{nd}$ ,  $3^{rd}$  codon positions were included in analysis. All positions which were ambiguous each sequence pair were removed by using pairwise deletion option. There were a total of 992 positions in the final dataset. Evolutionary analyses were conducted in MEGAX [150].

#### 3.15.7 Estimation of Evolutionary Divergence

Evolutionary divergences are the differences accumulated in the sequences of organisms over time. To calculate these divergences MEGAX was used and 235 sequences of COI gene from different Passeriformes were selected for analysis.

Genetic distance was calculated by the MEGAX [150] software by entering the aligned 235 sequences of Passeriformes into Distance option in MEGAX. The pdistance was calculated using this model to estimate the genetic distance between different DNA sequences calculating the number of differences between two sequences divided by the sequence length. The steps to enter the data into MEGA included: click on the distance tab, calculate overall mean of a standard comparison (p value) and add 1000 bootstrap repetitions to evaluate the variance.

### 3.15.8 Phylogenetic Aanlysis

Evolutionary analyses were conducted in MEGAX Neibour joining method. This involved 235 nucleotide sequences in analysis from COI gene including 43 newly generated sequences of Passeriformes of Pakistan and 192 sequences of other Passeriformes downloaded from NCBI GenBank along with out-group to predict their effective ancestry. The available 235 nucleotide sequences of Passeriformes were aligned and entered in the phylogeny option of the MEGAX by which options of phylogenetic trees were available. The Neighbour joining tree method was used to analyze the phylogenetic relations among different species of Passeriformes. Then file was exported as MEGA format and phylogeny option was selected for analysis and neighbor joining method was used to reconstruct the phylogenetic tree. For this purpose default parameters were selected and original and consensus tree were saved as PDF file.

# Chapter 4

# **Results and Analysis**

The COI region of mitochondrial genome has been reported to be capable of identifying unknown sample of birds to species level. Similar work has been reported by many researchers [40, 55, 56, 83] they found that this mitochondrial marker is an accurate and a rapid genetic method for identification of species and for determining evolutionary relationships among different avian species. It was also found during this study that the same region of DNA was proficient in reconstructing the phylogenetic relationship among different species of Passeriformes. The 49 samples of Passeriformes species were collected from different area of Pakistan based on their availability to carry out this study both on morphological as well as molecular basis to accomplish the designed objectives of the study. For this purpose, the morphological features as weight, body color & length, wing color & length, tail color & length, bill color & length, eye color (iris), legs & feet color, and nape color of all forty nine specimens were thoroughly studied. The morphological characteristics of an organism help in determining the taxonomy and phylogeny of a particular species [156]. Collected samples identified based on morphological features using standard morphological keys and reference books "The Birds of Pakistan" by Robert and Animal Life Encycloped by Grzimek's and "Birds of Pakistan" by Richard Grimmett [15, 83, 130]. The morphometric data is presented in Appendix A. Preserved vouchers of the specimens deposited at Centre for Bioresource Research (CBR), Museum at Islamabad, Pakistan.

# 4.1 Morphological Characterization of Specimens

Specimens were identified as 49 species, belonging to 39 genera and 18 families of order Passeriformes of class Aves and phylum Chordate morphologically based on their characteristics. Morphological identification based on morphological characters is available in Table 4.1 and characters are provided in Appendix A.

S.No.	Family	Genus	Species	
1	Alaudidae	Alauda	Alauda arvensis	
			Alauda gulgula	
		Galerida	Galerida cristata	
		Melanocorypha	Melanocorypha bimaculata	
		Eremopterix	Eremopterix griseus	
		Calandrella	Calandrella brachydactyla	
2	Campephagidae	Tephrodornis	Tephrodornis pondicerianus	
		Pericrocotus	Pericrocotus cinnamomeus	
3	Corvidae	Dendrocitta	Dendrocitta vagabunda	
		Corvus	Corvus splendens	
			Corvus corax	
			Corvus machorynchus	
		Urocissa	Urocissa flavirostris	
4	Dicruridae	Dicrurus	Dicrurus leucophaeus	
5	Emberizidae	Emberiza	Emberiza buchanani	
			Emberiza lathami	
6	Fringillidae	Carpodacus	Carpodacus erythrinus	
7	Laniidae	Lanius	Lanius vittatus	
			Lanius schach	
8	Monarchidae	Terpsiphone	Terpsiphone paradisi	
9	Motacillidae	Anthus	Anthus richardi	
			Anthus trivialis	
10	Oriolidae	Oriolus	Oriolus oriolus	

TABLE 4.1: Morphological based classification of samples of order Passeriformes

S.No.	Family	Genus	Species
11	Passeridae	Passer	Passer hispaniolensis
			Passer rutilans
		Petronia	Petronia xanthocollis
12	Paridae	Parus	Parus major
13	Pycnonotidae	Pycnonotus	Pycnonotus leucogenys
		Hypsipetes	Hypsipetes leucocephalus
14	Sturnidae	Acridotheres	Acridotheres ginginianus
		Sturnus	Sturnus roseus
			Sturnus vulgaris
15	Sylviidae	Prinia	Prinia buchanani
			Prinia socialis
			Prinia hodgsonii
		Phylloscopus	Phylloscopus affinis
		Sylvia	Sylvia curruca
		Seicercus	Seicercus xanthoschistos
		Orthotomus	Orthotomus sutorius
		Cisticola	Cisticola juncidis
16	Timaliidae	Chrysomma	Chrysomma sinense
		Garrulax	Garrulax lineatus
		Stachyris	Stachyris pyrrhops
17	Turdidae	Saxicoloides	Saxicoloides fulicatus
		Phoenicurus	Phoenicurus ochruros
		Copsychus	Copsychus saularis
		Oenanthe	Oenanthe picata
		Myophonus	Myophonus caeruleus
18	Zosteropidae	Zosterops	Zosterops palpebrosus

TABLE 4.1: Morphological based classification of samples of order Passeriformes

Specimens were identified as 49 species, belonging to 39 genera and 18 families of order Passeriformes of class Aves and phylum Chordate.

# 4.2 Genomic DNA (gDNA) Extraction

Genomic DNA (gDNA) was successfully extracted from keel tissues of 49 samples of Passeriformes of Pakistan using the phenol-chloroform protocol [132, 133]. From keel tissues of specimens, a portion (COI gene comprising 650 bp-base pairs) of the mitochondrial genome from its first half was amplified and using universal primer BirdF1 and BirdR1 was sequenced [44, 157]. The same primers have been used to amplify COI region in different mammals, mentioned by many researchers [40, 135–137, 158–160]. Extracted gDNA was confirmed using agarose gel (1%) on gel electrophoresis apparatus.

# 4.3 DNA Quantification

The DNA quality by measuring A260/A280 ratio was assessed which ranges from 1.7 to 2.0 ratios for genomic DNA of all extracted from three replicates for each samples. The wavelength ratio A260 was measured for purified DNA quantification. For genomic DNA the quantity ratio ranges from 500 to 3000 ng / $\mu$ L of extracted genomic DNA samples.



FIGURE 4.1: Qualitative analysis of genomic DNA using agarose (1%) gel electrophoresis for Passeriformes samples: Eremopterix griseus, Prinia buchanani, Passer hispaniolensis, Corvus splendens, Galerida cristata, Oenanthe picata, Prinia hodgsonii, Copsychus fulicatus, Lanius schach, Myophonus caeruleus, Garrulax lineatus, Parus major respectively.



FIGURE 4.2: Amplified PCR product of COI (650 bp) gene of Passeriformes samples using universal Primer R1 Lane 1 to 9 represent: Eremopterix griseus, Prinia buchanani, Passer hispaniolensis, Corvus splendens, Galerida cristata, Oenanthe picata, Prinia hodgsonii, Copsychus fulicatus, Lanius schach, respectively. Lane 10: Negative control.

# 4.4 PCR Amplification

Genomic DNA (gDNA) was successfully extracted from keel tissues of 49 samples of Passeriformes of Pakistan. Photographs of gels with good quality DNA bands were saved with proper reference to be amplified by PCR (Figure 4.1). The PCR reaction for the extracted DNA of samples was carried out by using universal primer (Table 3.1). The optimum annealing temperature was found to be 60°C to amplify CO1 gene. In analysis of samples, 650 bp of CO1 gene was amplified. The representative gel results of 650bp segment are shown in the Figure 4.2.

# 4.5 DNA Sequencing

The Sanger's sequencing of the PCR products was carried from the Centre of Excellence Molecular Biology, University of Punjab, Lahore (CEMB), and sequences were then converted into FASTA format. These sequences of samples were further analyzed for the molecular identification along with phylogenetic analysis.

# 4.6 Molecular Characterization of Sequences

The sequences obtained after Sanger's sequencing were further analyzed by performing BLAST analysis on NCBI (http://www.ncbi.nlm.nih.gov). Total 43 out of 49 sequences were identified as species of order Passeriformes based on the best matches by comparing their similarity percentage with other sequences in the database (Table 4.2). Normally species with query sequence > 97 % similarity are assigned to same species. Most of the species i.e., 32 of the submitted sequences (S # 1 to S # 32) were ranging from 97-100 % identity with their respective species and thus confirmed molecular characterization as well. The sequences of 10 species (S# 33 to S# 43) were showing similarity < 97 % but with other species of same genus. Total 49 samples were sequenced but when BLAST analysis was performed 6 samples (S#2, 3, 4, 20, 34, 40 of Table 3.1) showed similarity with species of diff erent genera from order other than passeriformes with 98-100% similarity. Therefore they were excluded from further analyses. Further verification with BOLD database also revealed that sequences of these species were not the same as morphologically characterized. Nucleotide sequences of 43 species of Passeriformes were then submitted to NCBI database and the accession numbers were assigned to them as mentioned in last column of Table 4.2.

$\mathbf{S}$ #	Species	Query	Identity	Best	Species (Sub-	Accession
	(Query)	Cover		Match	ject)	No.
1.	Passer hispan-	100%	100%	GQ482315.1	Passer hispan-	OR234858
	iolensis				iolensis	
2.	Corvus corax	100%	100%	GQ481624.1	Corvus corax	OR244265
	corax				corax	
3.	Copsychus	100%	100%	KJ442642.1	Copsychus	OR244278
	saularis saularis				saularis saularis	
4.	Sturnus roseus	100%	100%	EF484209.1	Sturnus roseus	OR250785
5.	Melanocorypha	89%	100%	FJ465342.1	Melanocorypha	OR244254
	bimaculata				bimaculata	
6.	Sylvia curruca	100%	99.86%	KF946881.1	Sylvia curruca	OR238387
	curruca				curruca	

 TABLE 4.2: Sequence similarity of BLAST analysis and Accession No. of Passeriformes samples

<b>S</b> #	Species	Query	Identity	Best	Species (Sub-	Accession
	(Query)	Cover		Match	ject)	No.
7.	Emberiza	100%	99.86%	GQ481741.1	Emberiza	OR244256
	buchanani				buchanani	
8.	Calandrella	100%	99.86%	GU571293.1	Calandrella	OR260047
	brachydactyla				brachy dacty la	
9.	Galerida	100%	99.85%	GQ481940.1	Galerida	OR234857
	cristata areni-				cristata areni-	
	cola				cola	
10.	$Zosterops \ palpe-$	94%	99.83%	EU447060.1	$Zosterops \ palpe-$	OR244267
	$brosus\ palpebro-$				brosus palpebro-	
	sus				sus	
11.	Carpodacus ery-	100%	99.71%	GU571323.1	Carpodacus ery-	OR244257
	thrinus				thrinus	
12.	Oen an the picata	96%	99.70%	DQ683509.1	Oen an the picata	OR260093
13.	Prinia socialis	92%	99.69%	KT240058.1	Prinia socialis	OR240108
	socialis				socialis	
14.	Acridotheres	100%	99.56%	EF484197.1	Acridotheres	OR244255
	ginginian us				ginginian us	
15.	Corvus splen-	100%	99.56%	GU326327.1	Corvus splen-	OR238478
	$dens\ splendens$				dens splendens	
16.	Dendrocitta	94%	99.53%	KJ442640.1	Dendrocitta	OR238486
	vagabunda				vagabunda	
	saturatior				saturatior	
17.	Py cnonotus	98%	99.42%	HQ168045.1	Py cnonotus	OR244270
	leucogenys				leucogenys	
	leucogenys				leucogenys	
18.	Passer cin-	100%	99.28%	GQ482325.1	Passer cin-	OR259988
	namomeus				namomeus	
	rutilans				rutilans	
19.	Eremopterix	85%	99.16%	KP975223.1	Eremopterix	OR244260
	griseus				griseus	
20.	Phoenicurus	100%	98.95%	GQ482384.1	Phoenicurus	OR240090
	ochruros				ochruros	
21.	Peric rocotus	94%	98.78%	EU541461.1	Pericrocotus	OR244264
	cinnamomeus				cinnamomeus	
22.	Chrysomma	95%	98.60%	JQ174444.1	Chrysomma	OR240092
	sinense				sinense	

$\mathbf{S}$ #	Species	Query	Identity	Best	Species (Sub-	Accession
	(Query)	Cover		Match	ject)	No.
23.	Terpsiphone	94%	98.62%	KJ442633.1	Terpsiphone	OR250915
	paradisi par-				paradisi par-	
	adise				adise	
24.	Dicrurus leu-	93%	98.31%	JQ174693.1	Dicrurus leu-	OR251001
	cophaeus				cophaeus	
25.	Trochalopteron	88%	98.05%	EU447035.1	Trochalopteron	OR250794
	lineatum linea-				lineatum linea-	
	tum				tum	
26.	Corvus	100%	97.98%	AB842677.1	Corvus	OR244274
	macrorhyn-				macrorhyn-	
	chos				chos	
27.	Tephrodorn is	93%	97.85%	JQ176406.1	Tephrodorn is	OR238389
	pondicerianus				pondicerianus	
28.	Lanius schach	100%	97.84%	JF957014.1	Lanius schach	OR240091
	schach				schach	
29.	Parus major	99%	97.26%	HQ833096.1	Parus major	OR250798
30.	Orthotomus su-	100%	96.97%	HQ608882.1	Orthotomus su-	OR260092
	torius				torius	
31.	Cisticola jun-	100%	96.77%	AB843427.1	Cisticola jun-	OR260094
	cidis				cidis	
32.	Oriolus oriolus	99%	96.68%	KC354938.1	Oriolus oriolus	OR244259
33.	Hypsipetes leu-	93%	96.47%	JQ175126.1	Hypsipetes	OR250917
	cocephalus				madagas carien	
34.	Urocissa flavi-	93%	96.01%	JQ176603.1	Urocissa ery-	OR250808
	rostris flavi-				throrhyncha	
	rostris					
35.	Phyllos copus	93%	95.85%	JQ175813.1	Phylloscopus	OR244271
	affinis				trivirgatus	
36.	Lanius vittatus	100%	95.82%	JF957014.1	Lanius chach	OR234819
	Valenciennes					
37.	Stachyrdopsis	99%	95.52%	HQ917502.1	Stachyris rufi-	OR250809
	pyrrhops				ceps	
38.	Emberiza lath-	99%	91.91%	GQ481822.	Emberiza	OR260283
	ami				schoeniclus	
39.	Prinia hodg-	91%	91.79%	MH265925.1	Prinia bairdii	OR244266
	sonii					

<b>S</b> #	Species	Query	Identity	Best	Species (Sub-	Accession
	(Query)	Cover		Match	ject)	No.
40.	Copsychus fuli-	99%	90.29%	KC354898.1	Copsychus	OR234860
	catus				saularis	
41.	Prinia	100%	90.17%	HQ608884.1	Prinia crinigera	OR234851
	buchanani					
42.	My ophonus	100%	90.01%	KF946849.1	Saxicola rubetra	OR250811
	caerule us					
43.	Alauda gulgula	100%	89.95%	GQ481305.1	Alauda gulgula	OR260282
	australis				australis	

# 4.7 Assignment of Barcode Index Numbers (BINs) from BOLD Database

Sequences of 49 species of Passeriformes were submitted to BOLD database and BINs were assigned to 43 species. The identification of sequences of 6 species (S#2, 3, 4, 20, 34, 40 of Table 3.1) have shown discrepancies at GenBank NCBI and BOLD database therefore, these species sequences were not included in further analysis.

# 4.7.1 Barcode Index Numbers (BINs)

The BINs system tries to clusters COI gene sequence data into their operational taxonomic units (OTUs) called BINs (Barcode Index Numbers). It provides a mean of confirming the similarity (concordance) between barcode sequences clusters for species designations. This analysis offered validation on the bases of input records against all others in the same BINs including those submitted by other users by comparing their taxonomy. This analysis was performed at BOLD systems database.

Sequence identification through the BOLD identification engine revealed that the sequences had maximum homology to 43 species of Passeriformes and specific

barcode index numbers were assigned to 43 samples. These 43 samples of order Passeriformes were classified into 21 families and 35 genera on the bases of molecular studies at BOLD database as elaborated in Table 4.3.

s.	Family	Genus	Species/Subspecies	BINs
No.				
1	Alaudidae	Alauda	Alauda arvensis intermedia	BOLD:AAF5733
			Alauda gulgula australis	BOLD:ACZ2564
		Galerida	Galerida cristata arenicola	BOLD:AAD9870
		Melanocorypha	Melanocorypha bimaculata	BOLD:AAX4494
		Eremopterix	Eremopterix griseus	BOLD:ACH8855
		Calandrella	$Calandrella\ brachydactyla$	BOLD:AAF5733
2	Campephagidae	Pericrocotus	Pericrocotus cinnamomeus	BOLD:AAL2706
3	Cisticolidae	Prinia	Prinia buchanani	BOLD:ACZ2474
			Prinia socialis socialis	BOLD:ACZ2475
			Prinia hodgsonii	BOLD:ACZ2474
		Orthotomus	Orthotomus sutorius	BOLD:ACH8281
		Cisticola	Cisticola juncidis	BOLD:ACS3101
4	Corvidae	Dendrocitta	Dendrocitta vagabunda sat-	BOLD:ACH6125
			uratior	
		Corvus	Corvus splendens splendens	BOLD:AAR9140
			Corvus corax corax	BOLD:AAB5621
			Corvus machorynchus	BOLD:ABW5160
		Urocissa	Urocissa flavirostris flavi-	BOLD:ACZ2846
			rostris	
5	Dicruridae	Dicrurus	Dicrurus leucophaeus	BOLD:AAI9717
6	Emberizidae	Emberiza	Emberiza buchanani	BOLD:AAF0356
			Emberiza lathami	BOLD:ACZ3094
7	Fringillidae	Carpodacus	Carpodacus erythrinus	BOLD:AAB3874
8	Laniidae	Lanius	Lanius vittatus	BOLD:ACZ1830
			Lanius schach schach	BOLD:ABZ8019
9	$Leiothrichidae^*$	Trochalopteron	Trochalopteron lineatum	BOLD:AAY1381
10	Monarchidae	Terpsiphone	Terpsiphone paradisi para	BOLD:ACS4664
11	$Muscicapidae^*$	Myophonus	Myophonus caeruleus	BOLD:AAC5713
		Phoenicurus	Phoenicurus ochruros	BOLD:AAC1536
		Copsychus	Copsychus saularis saularis	BOLD:ACE7266

 

 TABLE 4.3: Confirmation of sequences and BINs assigned to samples of Passeriformes at BOLD database

s.	Family	Genus	Species/Subspecies	BINs
No.				
			Copsychus fulicatus	BOLD:ACZ2562
		Oenanthe	Oenanthe picata	BOLD:AAW9936
12	Oriolidae	Oriolus	Oriolus oriolus	BOLD:ACZ2757
13	Paridae	Parus	Parus major	BOLD:ACZ3140
14	Passeridae	Passer	Passer hispaniolensis	BOLD:ABX5008
			Passer cinnamomeus ruti-	BOLD:AAC1399
			lans	
15	$Phylloscopidae^*$	Phylloscopus	Phylloscopus affinis	BOLD:ACH0131
16	Pycnonotidae	Pycnonotus	Pycnonotus leucogenys	BOLD:AAN3860
		Hypsipetes	Hypsipetes leucocephalus	BOLD:ACZ2808
17	Sturnidae	Acridotheres	Acridotheres ginginianus	BOLD:ACE4748
		Pastor	Pastor roseus	BOLD:AAE0119
18	Sylviidae	Sylvia	Sylvia curruca curruca	BOLD:AAC0536
19	Timaliidae	Chrysomma	Chrysomma sinense	BOLD:AAV9282
		Stachyriodopsis	Stachyriodopsis pyrrhops	BOLD:ACZ2835
20	Vangidae*	Tephrodornis	Tephrodornis pondicerianus	BOLD:AAU3934
21	Zosteropidae	Zosterops	Zosterops palpebrosus palpe-	BOLD:AAB2042
			brosus	

Note: (\*) New families as compared to classical Taxonomy.

In this analysis 42 BINs were assigned to 43 species sequences and among these 1 BIN was assigned to 2 species (*Prinia buchanani Blyth, Prinia hodgsonii Blyth*, BOLD: ACZ2474, Table 4.5). Out of these 42 BINs 32 records were taxonomically concordant mean already present in the BOLD database with non- unique BINs. Rest of 11 records out of 42 showing unique BINs, as single record of respective species of these 11 has been submitted by our study in the BOLD database. The sequences of 11 species were not present in the BOLD database from any other part of the world and have been submitted as a singleton specimen from Pakistan. This contributes as diversity of Passeriformes of Pakistan in BOLD database.

# 4.7.2 Non Unique BINs with Taxonomic Concordance from BOLD Database

Concordant taxonomy means multiple samples showing same taxonomy therefore same BIN was assigned to many samples. The Table 4.4 shows 32 samples showing non unique BINs that were shared by multiple samples submitted from diferent parts of the world in the BOLD database. The highest BIN similarity was shown by *Passer hispolansis* i.e., 44 including our sample. The least BIN similarity was 2 (*Chrysomma sinense, Prinia socialisis socialisis, Zosterops palpebrosus palpebro*sus, *Phylloscopus affinis, Trochalopteron lineatum lineatum Terpsiphone paradisi paradisi*) including our sample. These non-unique BIN assigned to 32 samples validated the taxonomy of the species of Passeriformes of Pakistan.

<b>S.</b> #	Identification	BINs	Total Members
1.	Passer hispaniolensis	BOLD:ABX5008	44
2.	Sylvia curruca curruca	BOLD:AAC0536	27
3.	Tephrodornis pondicerianus	BOLD:AAU3934	4
4.	Dendrocitta vagabunda saturatior	BOLD:ACH6125	4
5.	Corvus splendens splendens	BOLD:AAR9140	16
6.	Chrysomma sinense	BOLD:AAV9282	2
7.	Lanius schach schach	BOLD:ABZ8019	22
8.	Prinia socialis socialis	BOLD:ACZ2475	2
9.	Melanocorypha bimaculata	BOLD:AAX4494	5
10.	Acridotheres ginginianus	BOLD:ACE4748	5
11.	Pastor roseus	BOLD:AAE0119	20
12.	Carpodacus erythrinus	BOLD:AAB3874	31
13.	Eremopterix griseus	BOLD:ACH8855	3
14.	Corvus corax corax	BOLD:AAB5621	40
15.	Pericrocotus cinnamomeus	BOLD:AAL2706	3
16	Zosterons nalnehrosus nalnehrosus	BOLD A A B2042	9

TABLE 4.4: Non unique BINs of samples of Passeriformes with taxonomic concordant estimated by BOLD database

S. #	Identification	BINs	Total Members
17.	Pycnonotus leucogenys	BOLD:AAN3860	12
18.	Phylloscopus affinis	BOLD:ACH0131	2
19.	Copsychus saularis saularis	BOLD:ACE7266	31
20.	Trochalopteron lineatum lineatum	BOLD:AAY1381	2
21.	Myophonus caeruleus	BOLD:AAC5713	5
22.	Terpsiphone paradisi paradisi	BOLD:ACS4664	2
23.	Emberiza lathami	BOLD:ACZ3094	3
24.	Passer cinnamomeus rutilans	BOLD:AAC1399	17
25.	Orthotomus sutorius	BOLD:ACH8281	3
26.	Oenanthe picata	BOLD:AAW9936	12
27.	Emberiza buchanani	BOLD:AAF0356	6
28.	Calandrella brachydactyla	BOLD:AAF5733	18
29.	Galerida cristata arenicola	BOLD:AAD9870	44
30.	Phoenicurus ochruros	BOLD:AAC1536	17
31.	Corvus macrorhynchos	BOLD:ABW5160	4
32.	Dicrurus leucophaeus	BOLD:AAI9717	4

# 4.7.3 Unique BINs with Single Specimen from BOLD Data base

The 11 species shown in Table 4.5 are the single specimens of each species which were submitted to BOLD database by our study and no record of these species from other parts of the world was already available in BOLD database during study time. These 11 species were identified by BOLD database and new BINs were assigned to these species as a new representative of respective species. This indicates that the sequence data of these 11 species was not available in BOLD database.

S.#	Species	BINs
1.	Lanius vittatus	BOLD:ACZ1830
2.	Copsychus fulicatus	BOLD:ACZ2562
3.	Oriolus oriolus	BOLD:ACZ2757
4.	Parus major	BOLD:ACZ3140
5.	Stachyridopsis pyrrhops	BOLD:ACZ2835
6.	Hypsipetes leucocephalus	BOLD:ACZ2808
7.	Urocissa flavirostris flavirostris	BOLD:ACZ2846
8.	Alauda gulgula australi	BOLD:ACZ2564
9.	Prinia buchanani Blyth	BOLD:ACZ2474
10.	Prinia hodgsonii Blyth	BOLD:ACZ2474
11.	Cisticola juncidis	BOLD:ACS3101

 TABLE 4.5: Unique BINs of sequences of Passeriformes estimated by BOLD

 database

Comparison of the Table 4.1 and Table 4.5 indicate that unique BINs (BOLD: ACZ2757, BOLD: ACZ3140, BOLD: ACS3101) assigbed to 3 species sequences (*Oriolus oriolus, Parus major, Cisticola juncidis*) respectively were confirmed through GenBank NCBI based on percentage similarity about 97% as well as from the BOLD engine. BOLD engine provided the identification of the rest of the 8 specimens where as GenBank NCBI showed variation at the species level only with % similarity less than 96%. Further more our dataset discovers 8 unique BINs out of 43 sequences which indicate the need for further sampling and identification in order to add more species into these databases to increase their accuracy.

BOLD engine provided the identification of the rest of the 8 specimens where as GenBank NCBI showed variation at the species level only with % similarity less than 96%. Further more our dataset discovers 8 unique BINs out of 43 sequences which indicate the need for further sampling and identification in order to add more species into these databases to increase their accuracy [161].

# 4.8 Comparison of Classical and Molecular Taxonomy of Samples of Passeriformes of Pakistan

Comparison of molecular and classical taxonomy of samples of Passeriformes of Pakistan at family, genus and species level was inferred by referencing the T. J. Roberts [15] for classical taxonomy and BOLD (Barcode of Life Data System) databases (www.boldsystems.org) [139] and was further confirmed through data from other databases like Avibase database (https://avibase.bsc-eoc.org) [142] for molecular taxonomy as shown in Table 4.6. The purpose was to compare the classical taxonomy at molecular level.

The comparison revealed changes at different taxonomic levels of 17 species out of 43 samples. Family of 12 species has been changed from one to another, both family and genus were changed for 2 species and only genus was changed for 2 species whereas species level change was observed for only 1 species.

The family of *Tephrodornis pondicerianus* was changed from Campephagidae to Vangidae, *Chrysomma sinense* from Timaliidae to Sylviidae, *Garrulax lineatus* from Timaliidae to Leiothrichidae, *Phylloscopus affinis, Cisticola juncidis, Orthotomus sutorius, Prinia buchanani, Prinia socialis, Prinia hodgsoniifrom Sylviidae to Phylloscopidae,* and *Saxicoloides fulicatus, Myophonus caeruleus, Phoenicurus ochruros, Copsychus saularis saularis, Oenanthe picata* from Turdidae to Muscicapidae (Table 4.6).

At genus level 4 species have been moved from one genus to another genus. *Garrulax lineatus* moved from Garrulax genus to Trochalopteron genus (*Trochalopteron lineatum*) *Cyanoderma pyrrhops* moved from genus Cyanoderma to Stachyriodopsis (*Stachyriodopsis pyrrhops*). *Sturnus roseus* moved from Sturnus genus to Pastor (*Pastor roseus*). In the same way *Saxicoloides fulicatus* placed from Saxicoloides to Copsychus genus (*Copsychus fulicatus*). Only one species name was changed i.e., *Passer rutilans rutilans* and renamed to *Passer cinnamomeus rutilans* (Table 4.6).

S. #	Classical taxonomy based	l on Literatur	e [ <b>15</b> ]	Molecular taxonomy based	l on BOLD Data	base [129]
	Species	Genus	Family	Species	Genus	Family
1	Tephrodornis pondicerianus	Tephrodornis	Campephagidae	-	-	Vangidae
2	Chrysomma sinense	Chrysomma	Timaliidae	-	-	Sylviidae
3	Garrulax lineatus	Garrulax	Timaliidae	Trochalopteron lineatum	Trochalopteron	Leiothrichidae
4	Cyanoderma pyrrhops	Cyanoderma	Timaliidae	Stachyriodopsis pyrrhops	Stachyriodopsis	-
5	Sturnus roseus	Sturnus	Sturnidae	Pastor roseus	Pastor	-
6	Phylloscopus affinis	Phylloscopus	Sylviida	-	Phylloscopus	Phylloscopidae
7	Cisticola juncidis	Cisticola	Sylviida	-	-	Cisticolidae
8	Orthotomus sutorius	Orthotomus		-	-	
9	Prinia buchanani	Prinia		-	-	
10	Prinia socialis			-	-	
11	Prinia hodgsonii			-	-	
12	Saxicoloides fulicatus	Saxicoloides	Turdidae	Copsychus fulicatus	Copsychus	Muscicapidae
13	Myophonus caeruleus	Myophonus		-	-	
14	Phoenicurus ochruros	Phoenicurus		-	-	
15	Copsychus saularis saularis	Copsychus		-	-	
16	Oenanthe picata	Oenanthe		-	-	
17	Passer rutilans rutilans	Passer	Passeridae	Passer cinnamomeus rutilans	-	-

TABLE 4.6: Comparison of classical versus molecular taxonomy of samples of Passeriformes of Pakistan at species, genus and family level

Among the 11 unique BINs assigned by the BOLD database there were 5 BINs that showed change at taxonomic level (Table 4.5). There were 3 species (*Cisticola juncidis, Prinia buchanani*, Prinia hodgsonii) with the family changed, 1 species (*Saxicoloides fulicatus*) with the family and genus and I speices (*Cyanoderma pyrrhops*) with genus changed were observed. Further more changes at taxonomic level from our dataset for 17 species out of 43 sequences indicate the need for extensive sampling for identification purpose in order to add more species into these databases to increase their accuracy for identification and verification [161].

The genus tephrodornis have birds with ashy colour. The species *Tephrodornis* pondicerianus named as Common Woodshrike was first described as subspecies to locality of Madras. Gmelin has placed this subspecies in the genus Muscicapa along with the flycatchers. In the past this species included *Tephrodornis affinis* named (Sri Lanka Woodshrike) as a subspecies and now treated as a species with distinct plumage as well as calls and is restricted within Sri Lanka. Several subspecies are named under this species [162].

Tephrodornis affinis and T. pondicerianus previously were grouped as T. pondicerianus [6, 163]. Our results prove the same concept of placing Tephrodornis pondicerianus in genus tephrodornis. According to bird life international [164] Tephrodornis pondicerianus is found across Asia in scrub habitats and thin forest. In the past it has been placed in the cuckoshrike group of birds belonging to family Campephagidae and the helmetshrike birds from Prionopidae family but is counted under family Tephrodornithidae (ITIS). According to Robert [15] Tephrodornis pondicerianus (Common Woodshrike), belongs to genus Tephrodornis and family Campephagidae But according to bird life international, Avibase and IUCN Red List accessed in 2021 [24, 26, 131], it is now placed under another family i-e Vangidae. Our results have supported the idea of Tephrodornis pondicerianus placed in family Campephagidae according to literature [15] and shifted to family Vangidae according to identification of our sample by BOLD database.

*Chrysomma sinense* (Yellow-eyed Babbler) from genus Chrysomma was studied and according to classical taxonomy it was placed under family Timaliidae but molecular studies separated it into family Sylviida (Old World warblers) [26] and according to BOLD database (www.boldsystems.org) [139] but into Paradoxornithidae family according to Avibase database., this was earlier grouped into two families i-e Turdidae and Timaliidae and outsize in Muscicapidae . It is native to the Southeast and South Asia inhabiting wetland, shrubland, and grassland habitats [165]. In IUCN Red List, it is mentioned as Least Concern (LC) because it has stable population and wide distribution. Its traditional placement was in family Timaliidae (Old World babbler family) although Chrysomma genus forms a clade with the other genera like parrotbills and Sylvia warblers belonging to the family Sylviidae [63]. Our study sample *Chrysomma sinense* belongs to genus Chrysomma and was placed under family Timaliidae according to classical taxonomy [15] and molecular studies separated it into family Sylviida according to BOLD database (www.boldsystems.org) [139] identification system in our study.

Molecular studies has also replaced family Timaliidae to family Leiothrichidae and traditionally subsumed genus Garrulax [162] to genus Trochalopteron for *Garrulax lineatus* species and which is now named as *Trochalopteron lineatum* (Streaked Laughingthrush). Recently it has been split to from a broader family Timaliidae. Now the traditionally recognized some genera of this family have been rediscovered and now placed as separate clade family Timaliidae while other genera are considered polyphyletic according to genetic data availability [166]. Many species are dependent on molecular data to be screened as yet not tested much of taxa [167]. Results of our study are supported by this evidence and species name of *Garrulax lineatus* has been changed to *Trochalopteron lineatum* because of the change in genus name from Garrulax [15] to genus Trochalopteron according to BOLD database (www.boldsystems.org) [139].

The genus Cyanoderma [15] has also been replaced by genus Stachyridopsis (BOLD database 2022) [139] and species name from *Cyanoderma pyrrhops* to *Stachyridopsis pyrrhops* accordingly but family Timaliidae remained same as earlier according to our comparison of taxonomy. The *Stachyridopsis pyrrhops* (Black-chinned Babbler) is normally found in the Indian Subcontinent preferring temperate forests and tropical lowland forests habitats. Geographical range of *Cyanoderma pyrrhops* is Himalayas (Kashmir to central Nepal). According to Avibase taxonomic concepts

its name has been changed from *Cyanoderma pyrrhops* to *Stachyris pyrrhops* onward (https://avibase.bsc-eoc.org retrieved in 2020) [141].

Our study show that the *Pastor roseus* belongs to genus Pastor according to modern taxonomy BOLD database (www.boldsystems.org retrieved in 2022) [139] but in classical taxonomy [15] it was named as genus Sturnus and species *Sturnus roseus* accordingly. The *Sturnus roseus* (Rosy Starling) belongs to the family Sturnidae but sometimes named under monotypic genus Pastor. Recent studies are supporting this split but still their closest living relatives are not known. Avibase taxonomic concepts v.3 has published *Sturnus roseus* (Rosy Starling) as *Pastor roseus* (database (https://avibase.bsc-eoc.org retrieved in 2020) [141]. All this data is supporting our findings of results.

*Phylloscopus affinis* (Tickell's Leaf Warbler) has a yellowish underside and supercilium and commonly found in Asia and a common target for bird watchers' of this region and now belongs to Phylloscopidae family according to BOLD database (www.boldsystems.org retrieved in 2022) [139] instead of family Sylviida [15] Same concept is supported by the Avibase database (https://avibase.bsc-eoc.org retrieved in 2020) [141], which we found by comparison of classical and molecular taxonomy of *Phylloscopus affinis*.

The Passeriformes species *Cisticola juncidis* and *Orthotomus sutorius* belongs to family Sylviidae according to classical taxonomy [15] but now after molecular level analysis they are in family Cisticolidae according to BOLD database (www.boldsystems.org retrieved in 2022) [139]. The *Cisticola juncidis* (Streaked Fantail Warbler) has wide distribution as Old World warbler with breeding range from southern Europe to Africa, This small bird can be identified by its rufous rump, brownish tail tipped white, lacks of any gold on collar found in grasslands. The *Orthotomus sutorius*, (Common Tailorbird) is found across tropical Asia common resident of urban gardens. Findings of our results are well supported by other databases (https://avibase.bsc-eoc.org retrieved in 2020) [141].

The samples of these three species i-e *Prinia buchanani*, *Prinia socialis socialis*, *Prinia hodgsonii* of genus Prinia of family Sylviidae [15] were replaced by family Cisticolidae after molecular studies according to BOLD database (boldsystems.org retrieved in 2022) [139] during comparison of our samples for identification. The *Prinia buchanani* (Rufous-fronted Prinia) belongs to Cisticolidae family and is normally found in India and Pakistan preferring tropical or subtropical dry forests habitats. The *Prinia socialis* is a resident breeder in the Subcontinent. The distinctive colours along with upright tail make its identification easy in farmland and urban gardens [168]. These studies are supporting our findings of change in family of 3 species of Prinia genus.

Findings of our taxonomic comparison of species Saxicoloides fulicatus has placed it under genus Saxicoloides and under family Turdidae according to previous morphological based classification system [15] but now after genetic analysis the molecular based classification system has replaced its species name to Copsychus fulicatus and genus Copsychus and family Muscicapidae. The Saxicoloides fulicatus (Indian Robin) now new name Copsychus fulicatus is widespread species of birds of family Muscicapidae well distributed in the Indian Subcontinent (Bhutan, Nepal, India, Pakistan, Sri Lanka and Bangladesh). They are commonly observed perching on rocks, open scrub areas and low thorny shrubs [162]. The Indian robin after molecular studies followed by phylogenetic analysis has been moved to Copsychus genus of family Muscicapidae but formerly it was placed in Saxicoloides the monotypic genus according to recent studies [169–171]. Results of our findings are supported by all this literature.

In the same way Myophonus caeruleus, Phoenicurus ochruros, Copsychus saularis saularis, and Oenanthe picata were ranked under family Turdidae according to traditional system of classification [15] but in modern system of classification now they are ranked under family Muscicapidae according to BOLD database system identification (www.boldsystems.org retrieved in 2022) [139] during our comparison of taxonomy. The Myophonus caeruleus (blue whistling thrush is common in Southeast Asia, Central Asia, and China. At dawn and the dusk, it whistles loud song like human and is widely distributed with variations in their size and plumage. The Phoenicurus ochruros (Black Redstart) belongs to genus Phoenicurus but was formerly classified under Thrush family (Turdidae), but is now placed under family

Muscicapidae as an Old World flycatcher BOLD database (www.boldsystems.org retrieved in 2022) [139] and Avibase database (https://avibase.bsc-eoc.org retrieved in 2020) [141]. The *Copsychus saularis* (Oriental Magpie-Robin, was formerly classified as under the family Turdidae [15], but considered now as flycatcher of the Old World. These birds have white and black colour and upright long tail. They are common in urban gardens and forests of the Indian Subcontinent and Southeast Asia. And is national bird of Bangladesh.

# 4.9 Sequence Analysis by MEGAX

The following analysis were performed on sequences of COI gene locus of mitochondrial genome (DNA) of Passeriformes to find variations in these sequences and find whether this locus of sequence is capable of reconstructing the phylogenetic relationship as claimed by different currently taxonomic studies using MEGAX software.

## 4.9.1 Multiple Sequence Alignment

It was carried out for the barcode region (COI) of 235 species of Passeriformes out of which 43 were sequenced in the laboratory and 192 sequences of Passeriformes were retrived from GenBank of NCBI database. The analysis was separately performed for nucleotides and amino acids sequences by means of ClustalW [145] integrated in MEGAX (Appendix C).

Multiple sequence alignment is pre requirement for phylogenetic analysis to find the evolutionary relationships among multiple sequences and shows the common patterns of genes and align the sequences based on the similarity. In our study they aligned successfully indicating variations and similarities among all included sequences.

#### 4.9.2 Nucleotide Composition

The nucleotide composition of COI gene of different species of Passeriformes shows how different or similar ATGC content is in the same gene of different species. MEGAX was used to compute the frequencies of each nucleotide (ATGC) in the barcode region of Passeriformes species of Pakistan as shown in Table 4.7 The analysis involved 43 newly generated sequences of Passeriformes and 193 retrieved sequences from GenBank of NCBI database of Pakistan.

Cytosine showing highest average amount 32.5% followed by Adenine 25.9%, Thamine 24.5% and least Guanine 17.1% of nucleotides and total average amount of nucleotides was 670.7 in all sequences. It shows a clear variations in the frequencies of nucleotides Thyamine T(U) ranging from 21.1% (*Lophophanes dichrous*) to 28.4% (*Cercotrichas galactotes*) deviating from aveage values. Highest Cytosine value was 38.0% (*Remiz pendulinus*) and lowest was 27.0% (*Rhipidura aureola*). Highest value of Adinine 29.1% (*Cisticola juncidis*) and lowest 22.4% (*Rhipidura hypoxantha*) was observed. Guanine value was highest 18.9% (*Hippolais languida*) and lowest 15.5% (*Prinia buchanani*) showing deviation range from average value of Guanine in the all 235 sequences [Appendix D].

Position	T(U)	$\mathbf{C}$	$\mathbf{A}$	G	Total
Nucleotide composition	24.5	32.5	25.9	17.1	670.7
$1^{st}$ position of codon	<b>T-1</b>	C-1	<b>A-1</b>	G-1	Total
Average	16.8	28.0	23.4	31.8	223.5
$2^{nd}$ position of codon	<b>T-2</b>	C-2	A-2	G-2	Total
Average	42.1	28.2	15.4	14.3	223.5
$3^{rd}$ position of codon	<b>T-3</b>	C-3	A-3	G-3	Total
Average	14.6	41.4	38.9	5.1	223.7

TABLE 4.7: Average nucleotide composition of COI gene at  $1^{st}$ ,  $2^{nd}$  and  $3^{rd}$  position of codon of Passeriformes of Pakistan

Nucleotide composition of an organism reveals its genome. GC content varies among species and has several implications. It determines the nucleotide frequencies, codon and their amino acid usage. Nucleotide composition is similar among the species living in the same environments therefore help in determining the association among close groups in their phylogeny [153, 154]. In prokaryotes, the GC content in any organism strongly correlated with mean values at the three codon positions,  $1^{st}$ ,  $2^{nd}$  and  $3^{rd}$  and also relate with global nucleotide frequencies of organisms and amino acid usage [172]. The variability in GC content in prokaryotes is high showing homogenicity [173]. On contrary to this GC content in vertebrate like mammals and birds shows highly similar GC content [174] and show similar pattern of codon usage [175]. However, intragenic heterogeneity has been observed in birds [176]. This nucleotide composition help understand pattern of substitutions and relative effect of selective forces resulting these changes [177].

The average frequency of nucleotide Thymine at the 1<sup>st</sup> position of codon in 16.8%, Cytosine 28.0%, Adenine 23.4% and for Guanine is 31.8%. The frequency of Guanine is highest at this position while the lowest for Thymine. 1<sup>st</sup> position of codon in all species shows the most variation in nucleotide frequencies (Table 4.7). Highest value of Thyamine at the 1<sup>st</sup> position of codon was observed in the species *Parus monticolus* (19.9) followed by the species of genus Prinia, *Prinia buchanani* (19.0), *Prinia socialis socialis* (19.0) *Prinia hodgsonii* (18.2). While a pattern of similarity can be seen for Thyamine (17.7) within genus Lanius for Lanius collurio, Lanius isabellinus, Lanius cristatus, anius tephronotus, Lanius excubitor.

Clear variations can be observed in the Thymine nucleotide frequencies of species of genera Phylloscopus, *Phylloscopus humei* (15.7), *Phylloscopus griseolus* (16.5), *Phylloscopus collybita* (18.3), *Phylloscopus trochiloides* (16.5), *Phylloscopus magnirostris* (16.0), *Phylloscopus reguloides* (16.0). This shows that *Phylloscopus collybita* has more adaptaion in the available environment as compared to other members of genus.

At  $1^{st}$  condon position highest value of Cytosine was 29.9 for *Emberiza bruniceps* but there was variation in the Cytosine values among 13 other members of the genus Emberiza with lowest value 26.8 for Emberiza rutila. This variation shows their better ability to survive in changing environments. A pattern of similarity was observed in the 7 species of genus Anthus studied ranging from 28.1-29.0.

At  $1^{st}$  codon position highest value of Adnine was 26.0 for *Hirundo smithii* but there was a wide difference in the value of Adnine i.e., 22.9 for *Hirundo rustica* the member of the same genus Hirundo which indicates the better adaptation of these species in the changing environments. Less variations in the amount of Adnine at  $1^{st}$  codon position was observed in the genus Lanius i.e., 23.8, 23.8, 23.8, 23.4, 23.8 for *Lanius collurio*, *Lanius isabellinus*, *Lanius cristatus*, *Lanius tephronotus*, *Lanius excubitor* respectively. This similarity in the amount of Adenine for species of genus Lanius indicates their fewer tendencies to adapt the changing environments.

At  $1^{st}$  codon position highest value of Guanine was 32.9 observed for *Emberiza* schoeniclus along with other species of different genera. There was variation observed in 13 other species of genus Emberiza with minimum value of Guanine 31.0 for *Emberiza fucata*. This variation in the nucleotide composition is indicating their best adaptions for survival in continuously changing climates. A less variation was observed in the value of Guanine in the 7 species of genus Acrocephalus ranging from 31.2 to 32.5, which indicates their less adaptability in the changing environments.

The average frequency of nucleotide Thymine at the  $2^{nd}$  position of codon in 42.1%, for nucleotide Cytosine it is 28.2%, for Adenine it is 15.4% and for Guanine it is 14.3%. The frequency of Thymine is highest at this position while the lowest for Guanine. The average frequency of nucleotides at  $2^{nd}$  position of codon in mitochondrial COI gene of Passeriformes species of Pakistan is shown in Table 4.7. The analysis involved total 235 sequences including 43 newly generated mtCOI sequences and 192 retrieved sequences of Pakistan.

At  $2^{nd}$  position of codon 6 species of genus Phylloscopus has shown the variation in Thyamine nucleotide frequencies (Table 4.7). The lowest value was 40.7 for *Phylloscopus reguloides* and highest 43.3 for *Phylloscopus trochiloides*. In the same way species of other genera has also shown variation in the value of Thyamine nucleotide as species of genus Acrocephalus values ranging from 42.4 to 40.7 among 7 species. Genus Prinia with 4 species values ranging from 40.7 to 42.6. The highest frequency of Cytosine 30.0 was observed at  $2^{nd}$  codon position for *Carpospiza brachydactyla* and the lowest 27.3 for multiple species. Variations were observed in 13 species of genus Emberiza ranging from 27.3 to 28.8. In the same way variations were also observed in the values of Cytosine at  $2^{nd}$  codon position for 6 species of genus Anthus ranging from 27.3 to 29.0. Variations were also observed among species of other genera under study this indicates their tendency to adapt the changes in the changed environments. The highest frequency observed for Adenine at the  $2^{nd}$  position of codon was 16.5 for *Phoenicurus frontalis* and lowest was 14.1 for *Alauda gulgula australis*. These ranges show the variations in the frequency of Adenine among the species of Passeriformes, which indicate their tendency to survive in the continuously changing environments. Within genus comparatively fewer variations were observed in the 4 species of genus Lanius ranging 15.6-16.4. A high variation was observed in 7 species of genus Acrocephalus ranging from 14.9-16.1 indicating their better survival for fittest.

At  $2^{nd}$  position of codon the frequency of Guanine was ranging from 12.2 to 15.1 for *Prinia buchanani* and *Lonchura punctulata* respectively but overall variation among different species of a genus was very less. For 5 species under genus Phylloscopus were ranging 14.2 to 14.7, for 7 species of Acrocephalus values were ranging from 14.3 to 14.7 as well.

At  $3^{rd}$  position of codon the average frequency of nucleotides is as follows 14.6% Thyamine, 41.4% for Cytosine, 38.9% for Adenine and 5.1% Guanine. They are almost similar for maximum species involved in this analysis. The frequency of nucleotides at  $3^{rd}$  position of codon in mitochondrial COI gene of Passeriformes species of Pakistan is shown in Table 4.7. The analysis involved total 235 sequences including 43 newly generated mtCOI sequences and 192 retrieved sequences of Passeriformes of Pakistan.

There was great variations observesd for the values of Thyamine at  $3^{rd}$  codon point ranging from 25.0 *Cercotrichas galactotes* and 7.4 for *Parus major*. Even with genra species have shown variations in Thyamine frequencies for eample the 7 species of Phylloscopus genus shownas value range as 13.4 to 16.9. Among 8 species of genus Oenanthe it ranges from 12.1 to 16.6. In the same way for 6 species of genus Anthus it ranges from 17.4 to 9.7 *Anthus campestris, Anthus*  pratensis repectively. The great variations in the frequencies of Thyamine at  $3^{rd}$  codon poition indicat, that these species of Passeriformes have great potential for survival in the changing climates. There was great variations observesd for the values of Cytosine at  $3^{rd}$  codon poition ranging from 28.1 Lanius schach schach and 51.9 for Oenanthe alboniger. Variation among 7 species under Acrocephalus genus were ranging 38.1 to 44.2 which is comparitely less varied as compared to overall variation among all species under study. The frequency of Adenine at  $3^{rd}$  codon poition was ranging from 47.1 for Lonchura punctulata and 28.4 for Rhipidura hypoxantha. This range also indicates variations in frequencies of Adenine among different species of Passeriformes under study and shows their capacity to adapt changes in their habits.

At  $3^{rd}$  position of codon the the frequency of Guanine was ranging from 13.3 to 1.3 for *Rhipidura hypoxantha* and *Pitta brachyuran* respectively. This is indicating a lot of variations in the frequency of Guanine among different species of Passeriformes under study. It is indicating their great potential for survival in the changing environments. Within genus these variations in the values of the Adenine were also observed as in the 7 species of genus Acrocephalus were ranging from 39.4-34.6. Within genus variations were also observed as in 5 species of genus Sylvia values ranging from 2.8 to 5.2 for *Sylvia nana, Sylvia communis* respectively.

Nucleotide composition is a tool which provids valuable information about genetic variations in the species of a polulation and among populations. It helps in finding genetic diversity at different taxonomic levels which increase the understanding of genetic make up, adaptive strategies and evolutionary history of different organisms and their populations. Nucleotide composition patterns refer to the charateristics of a certain group of organisms therefore help in distinguishing certain species or populations.

#### 4.9.3 Codon Usage Bias

Codon usage bias for COI genes is given below (Table 4.8). It was estimated using MEGAX software. It provides the average frequency of relative synonymous usage of each codon in the gene. From all 223 codons a few are showing negative value like UUG(L), AAG (K), UGU(C), UGC(C) while stop codons UAA (\*), UAG(\*), AGA (\*), AGG(\*) also showing zero value. While rest of codons have shown positive values ranging from 0.00-11.3 for AAG (K) and AUC (I) respectively.

Codon usage means frequency of a codon to be coded into particular amino acid in the specific genetic code to act as start or stop signal for protein synthesis process. Analysing the codon usage can help understand the evolutionary relationships, genetic diversity along with adaptations, gene expressions among different species of a population and even the origion of that particular geen. It helps understand complex processes of shaping the genetic diversity in the world of biology. Codon usage values range from 0-61 representing the frequency with which a particular code is coded into a specific amino acid. A zero value indicates a strong selective pressure against its use, the values close to zero suggest that codon is rarely used while a value 61 represents high preference of codon to be coded into specific amino acid. Codon usage is influenced by factors as mutation rates and natural selection. The results of our study indicate low preferences of the codons to be coded into specific amino acids indicating less genetic variations among species of Passeriformes.

<b>S</b> #	Codon	Count	RSCU	<b>S</b> #	Codon	Count	RSCU
1.	UUU(F)	2.3	0.31	33.	UAU(Y)	0.9	0.34
2.	UUC(F)	12.6	1.69	34.	UAC(Y)	4.3	1.66
3.	UUA(L)	1.7	0.29	35.	UAA(*)	0.0	0.0
4.	$\mathrm{UUG}(\mathrm{L})$	0.0	0.01	36.	UAG(*)	0.0	0.0
5.	$\mathrm{CUU}(\mathrm{L})$	4.3	0.71	37.	CAU(H)	1.5	0.67
6.	$\mathrm{CUC}(\mathrm{L})$	9.1	1.51	38.	CAC(H)	3.1	1.33
7.	$\mathrm{CUA}(\mathrm{L})$	17.	2.92	39.	CAA(Q)	4.5	1.84
8.	$\mathrm{CUG}(\mathrm{L})$	3.3	0.56	40.	CAG(Q)	0.4	0.16
9.	$\mathrm{AUU}(\mathrm{I})$	4.5	0.57	41.	AAU(N)	1.2	0.27

TABLE 4.8: Codon usage bias for COI gene sequences of Passeriformes

S #	Codon	Count	RSCU	<b>S</b> #	Codon	Count	RSCU
10.	AUC(I)	11.3	1.43	42.	AAC(N)	7.8	1.73
11.	AUA(M)	8.6	1.57	43.	AAA(K)	1.1	1.96
12.	AUG(M)	2.3	0.43	44.	AAG(K)	0.0	0.04
13.	$\mathrm{GUU}(\mathrm{V})$	2.7	0.68	45.	GAU(D)	0.8	0.22
14.	$\mathrm{GUC}(\mathrm{V})$	5.3	1.33	46.	GAC(D)	6.3	1.78
15.	$\mathrm{GUA}(\mathrm{V})$	6.6	1.64	47.	GAA(E)	2.3	1.78
16.	$\mathrm{GUG}(\mathrm{V})$	1.4	0.36	48.	GAG(E)	0.3	0.22
17.	UCU(S)	1.5	0.72	49.	$\mathrm{UGU}(\mathrm{C})$	0.0	0.0
18.	UCC(S)	4.4	2.20	50.	UGC(C)	0.0	0.0
19.	UCA(S)	4.1	2.03	51.	UGA(W)	5.4	1.96
20.	UCG(S)	0.1	0.07	52.	$\mathrm{UGG}(\mathrm{W})$	0.1	0.04
21.	$\mathrm{CCU}(\mathrm{P})$	2.8	0.71	53.	$\mathrm{CGU}(\mathbf{R})$	0.3	0.45
22.	$\operatorname{CCC}(\mathbf{P})$	5.5	1.41	54.	$\operatorname{CGC}(\mathbf{R})$	0.6	0.77
23.	CCA(P)	6.9	1.78	55.	CGA(R)	2.0	2.64
24.	$\operatorname{CCG}(\mathbf{P})$	0.4	0.09	56.	CGG(R)	0.1	0.15
25.	ACU(T)	2.2	0.66	57.	AGU(S)	0.2	0.08
26.	ACC(T)	4.9	1.49	58.	AGC(S)	1.8	0.90
27.	ACA(T)	5.8	1.75	59.	AGA(*)	0.0	0.0
28.	ACG(T)	0.3	0.10	60.	AGG(*)	0.0	0.0
29.	$\mathrm{GCU}(\mathbf{A})$	3.9	0.64	61.	$\mathrm{GGU}(\mathrm{G})$	3.4	0.63
30.	GCC(A)	10.5	1.75	62.	GGC(G)	4.8	0.89
31.	GCA(A)	9.3	1.55	63.	GGA(G)	11.1	2.08
32.	GCG(A)	0.4	0.06	64.	GGG(G)	2.1	0.40

## 4.9.4 Variations at Amino Acid Level

The composition of amino acid sequences of the COI loci from 235 species of Passeriformes including 43 sequenced and 192 downloaded sequences from NCBI GenBank were selected for calculation of conserved and variable sites through MEGAX software. A variable site can be parsimony-informative or singleton for having at least two different types of amino acids as compared to a conserve / constant site in Table 4.9 (Annexure F).

Conserved sites	Variable sites	Parsimony-informative	Singleton
(C)	$(\mathbf{V})$	(Pi)	(S)
225/330	37/330	20/330	17/330

TABLE 4.9: Amino acid sequence variations in Passeriformes samples

From all the data set of 330 selected sites from submitted sequences 225 sites were conserved which is the highest value proves that COI gene region is the most conserved region of a genome. Variable sited were only 37 out of 330, Parsimony informative sited were 20 out of 330 and single sites in each sequence of submitted sequences were 17 only which show the mutation in genes with time as they were present in only few sequences and not all (Appendex F).

In phylogenetic studies, (Psi) are calculated which indicate a site with at least two types of amino acids occure and each atleast two times. It was calculated through MEGAX software and 17 different parsimony informative sites (Psi) were [167] found. Researchers observed the parsimony informative sites (Psi) for avian species of Bucerotidae family using COI gene sequence and found no Singleton sites in the data. Singleton site works for association relationship. It would have to be one to one relationships [178].

The results shown in Appendex F may help in the identification of variable and conserved regions of COI gene loci. The structure and function of the encoded proteins show correspondence with each other therefore, there should be areas of conserved and variability domains in the sequence. The conserved regions may be ideal for species identification and helpful in designing the universal primers for amplification of the internally variable regions. In addition, the specific primers for each species can be designed by using unique variable sites which are particular to each species [30].

The process of evolution can be significantly affected by the change in percentage composition of nucleotides within a codon position. It can affect evolution by different means. Firstly it can be due to genetic variations within a population resulted by the changes in nucleotide composition at some specific codon position. This variation acts as a raw material for the process of natural selection. If the change in nucleotide composition is positive means create some beneficial trait in the organism will result in higher fitness of that organism in the specific environment. It will increase their survival by reproducing that particular allele in more frequently in that population [30].

Protein structure and functions can alter by change in nucleotide composition at specific codon followed by amino acid composition causing change in protein during translation. Amino acids have their specific chemical properties therefore changes in the amino acid composition can direct to changes in protein structure and functions. This will have significant impact on phenotype which further will affect their reproduction, and evolutionary success.

The nucleotide percentage at different codon positions can affect codon usage bias. It can be due to uneven distribution of some synonymous codons which may have encoded the same amino acids. Organisms prefer to choose some specific codons over the others. The percentage changes in the nucleotide composition among the codon can affect the codon usage bias. The codon usage bias can further affect the protein folding, translational efficiency and even regulation of genes and ultimately can influence the fitness and survival of the organism through competition within population [147].

The changes in nucleotide composition at different codon positions can be due to selective pressure of the environment. Over time resulting alleles may become prevalent due to better adaptation in the new environment. It means that change in percentage nucleotide composition within different codon positions can cause introduction of genetic variations, alteration in the protein functions along with structures. This is ultimately showing impact on codon usage bias and directing towards adaptation in the new environments. Over time, these changes affect the overall gentic make up of that population resulting in phenotypic changes in that population [147]. In the investigation of animal species and population genetics the variations in mitochondrial DNA are proved as a significant tool. Recently, reserchers interest has increased in the structure, function and evolution of 13 encodes polypeptides of mtDNA with recognition of relationship between mutations in mtDNA and human disease [157]. The amino acid sequence of the COI loci were selected from 235 species of Passeriformes. The COI locus is proved as highly conserved sequence as compared to cyt b, ND2 and ND5 genes as cyt b and COI loci are frequently used for the testing of avian species and their phylogenetic studies in current years [8].

#### 4.9.5 Estimation of Transition/Transversion Bias

Transition means one purine exchange with another or pyrimidine with another while, transversio exchange a purine to a pyrimidine and vice versa. The nucleotide transition/transversion bias of COI gene in Passeriformes was estimated using MEGAX. It involved 235 nucleotide sequences including 43 newly generated COI sequences of Passeriformes of Pakistan and 192 COI sequences of other Passeriformes retrieved from NCBI GenBank. All the missing data and gaps were eliminated from the sequences during the analysis. The average nucleotide transition/transversion bias (R) in COI gene was 2.31.

The transition bias was observed constant (17.4572) in the pair  $C \rightarrow T$ , pair  $A \rightarrow G$ , pair  $T \rightarrow C$  and  $G \rightarrow A$  suggesting that in COI gene the ratio of pyrimidine ( $C \rightarrow T$ ) conversions was same as purine ( $A \rightarrow G$ ) conversions. On the other hand, the transversion bias for COI gene was same for ( $C \rightarrow G$ ) to ( $A \rightarrow T$ ) [4].

The probability of converting one purine with another or one pyrimidine with another according to our results show 17.4572 value which is same for all nucleotides and bases. The value of probability is 3.7714 for converting one purine to one pyrimidine and the values are same for all nucleotides.
	Α	Т	С	G
Α	-	3.7714	3.7714	17.4572
$\mathbf{T}$	3.7714	-	17.4572	3.7714
$\mathbf{C}$	3.7714	17.4572	-	3.7714
$\mathbf{G}$	17.4572	3.7714	3.7714	-

TABLE 4.10: The estimated transition / transversion bias of COI gene in Passer-iformes

The rate of transition and transversion in a DNA sequence can act as a valuable tool and can provide information in various evolutionary and biological contexts. The rate of substitutions helps in understaning the evolutionary relationships, infering functional implications, assessing genetic diversity, and calculating the consequences of the mutational processes. It provides the detailed insight into the above mentioned processes that have helped in shaping the genetic variations over the period of time.

The transitions are more common and rapidly accumulate over time where as transversions are less common indicationg fewer genetic variations among populations. A higher rate of transition indicates a poplation's recent exapansion while a higher rate of transversion indicates a long term or ancient genetic diversity. A lower rate of of transversion indicates a higher degree of conservation means similarity in their DNA sequences showing close evolutionary relationships among them. The ratio of transition to transversion is used to find evoltionary relationships among different species of a population or among populations. The higher ratio indicates a close genetic relationship means a more recent common ancestry whereas lower ratio indicates greater evolutionary distance means more genetic divergence.

The results of our study are supporting the concept of transitions being common phenomenon in nature with high values and transversions being less common with low values indications fewer genetic variations among populations.

#### 4.9.6 Tajima's Neutrality Test

Tajima's Neutrality Test was created by a Japanese scientist Fumio Tajima [155]. It discriminates between DNA sequences that are evolving randomly and those evolving under the influence of any environmental factor (e.g. genetic drift). For a sequence to be evolving randomly, the value of D must be zero. In the analysis 235 nucleotide sequences of Passeriformes involved.  $1^{st}$ ,  $2^{nd}$ ,  $3^{rd}$  codon positions were included in analysis. All positions which were ambiguous each sequence pair were removed by using pairwise deletion option. There were a total of 992 positions in the final dataset. Evolutionary analyses were conducted in MEGAX [146].

TABLE 4.11: Tajima's Neutrality Test for COI gene sequences of Passeriformes

	m	S	Ps	$\theta$	π	D
Values	235	317	0.319556	0.052953	0.093349	2.405111

Abbreviations: m = number of sequences, n = total number of sites, S = Number of segregating sites, ps = S/n,  $\theta = ps/a1$ ,  $\pi =$  nucleotide diversity, and D is the Tajima test statistic.

Average evolutionary rate was scaled and set 1 for all sites and mean rate of evolution is shown against site number. This means that sites showing a rate < 1 showing average slow evolution than those with a rate > 1. The ML estimate of the gamma shape parameter is 0.3458. The maximum Log likelihood for this computation was -47798.134. In the analysis 235 nucleotide sequences of Passeriformes involved. 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> codon positions were included in analysis. All positions which were ambiguous each sequence pair were removed by using pairwise deletion option. There were a total of 992 positions in the final dataset. Evolutionary analyses were conducted in MEGAX [146]. The value of mean (relative) evolutionary rate is calculated here as 0.319556 which is < 1 showing that sited are evolving slowing. The presence of excessive rare allelles in genes shows a < -2 D value during Tajima's test which indicates thier selective sweep or positive selection in nature. Whereas, the presence of excessive common allelles in genes shows a  $i_{c}$  2 D value during Tajima's test which indicates their balancing or suggestive selection in nature. Our results have shown D value > 2 hich indicates their balancing or suggestive selection in nature.

Variations in COI gene can be used to distinguish the closely related species at genus and family level in almost all taxa of different animals [153]. It suggest the diversity of 648bp of COI gene of mitochondria to act as potential barcode for different species of animals [44] as each species has its own unique nucleotide sequence of COI gene [94]. Modern Molecular technology help identify the genetic variation at DNA level.

It is proved by recent studies that out of the four loci i-e COI, cyt b, ND2 and ND5 the COI locus observed to be highly conserved followed by cyto b. [22].

In the investigation of animal species and population genetics the variation in the mitochondrial DNA are proved as significant tool. Recently, researcher's interest has increased in the structure, function and evolution of 13 encodes polypeptides of mtDNA with recognition of relationship between mutations in mtDNA and human disease [157, 179].

The main reasons for the selection of COI gene of mitochondrial genome is its effectiveness as a single marker irrespective of its small size it increases the similarity between the species in a tree that acts as a source of barcode locus for animals. This mitochondrial genome is helpful in different animal groups [180] of vertebrates [181] including fishes [182], birds and mammals [178]. The short sequence of COI gene can be has been used for identification up to specie level successfully in fishes [178], in Lepidoptera [183], in nematodes [180] and also in mammals and birds [40, 181]. The DNA barcoding region of many individuals, are used to construct the phylogenetic trees based on genetic distance [184]. COI gene, was used a rapid and accurate marker for species identification and phylogenetic reconstruction, because this portion of mtDNA have small rate of mutation. A sequence divergence at CO1 regularly enables the discriminations of closely allied species in all animal phyla [32, 40, 162] thus, the role of genetic analysis has become very significant for establishing phylogenies. The variation among different species is evaluated by

sequence comparisons of these genes. The comparison among mammals showed accurately of Cyt b for finding phylogeny than COI while in avian species COI region is more accurate to determine their phylogeny [185]. The main purpose for the taxonomic study indicates that a sequence divergence at CO1regularly enables the discriminations of closely allied species in all animal phyla except Cinidarian. Similarly Hajibabaei [32] reported that there were many mitochondrial markers used as a DNA barcodes such as COI, CO2 and 16 SAR ribosomal DNA are used as an authentic tool for species identification without using any taxonomic details.

### 4.9.7 Estimates of Average Evolutionary Divergence

Evolutionary divergences are the differences accumulated in the sequences of organisms over time. The analysis involved 235 nucleotide sequences including 43 newly generated sequences of Passeriformes of Pakistan and 192 sequences obtained from GenBank NCBI. The rate variation among sites was modeled with a gamma distribution (shape parameter = 1). Codon positions included were  $1^{st}$  +  $2^{nd}$  +  $3^{rd}$ . All positions containing gaps and missing data were eliminated. There were a total of 992 positions in the final dataset. This evolutionary analyses was conducted in MEGA X.

The results show that average evolutionary divergence among species of Passeriformes was 0.18 the least average evolutionary divergence was 0.019 among *Lanius isabellinus* and *Lanius collurio* in the same way this average evolutionary divergence among other species of genus Lanius was very low as 0.022 among *Lanius tephronotus* and *Lanius cristatus* the highest was 0.263 among *Rhodospiza obsoleta* and *Ptyonoprogne rupestris* and among *Rhodospiza obsoleta* and *Cercotrichas galactotes.* All the differences were <2 therefore, meeting the criteria of intraspecific divergence Appendex E.

### 4.9.8 Phylogenetic Analysis

Birds broadly divide into main groups i-e Passeriformes and non-Passeriformes. The order Passeriformes is largest order of birds which further divided into 3 suborders. Suborder Acanthisitti with a single family Acanthisttidae (New Zeland Wrens), suborder Tyranni with 16 families and suborder Passeri with 121 families was found globally [164].

Phylogenetic analysis of organisms helps understand in-depth knowledge of evolution of species by genetic changes. Using phylogenetic analysis, present-day organism can be related with their ancestral origin and genetic divergence in the future may also be predicted.

The principal of minium evolution works in the neighbor –joining technique and selects the tree based on branch length which is the minimum. This heuristic algorithm generates the sub-trees and their closest subtrees are ultimately joined togather in a stepwise manner to construct a final tree. In a true tree the total branch length is the shortest. The NJ method is normally applied for the large data of the taxa with variation in the degree of divergence and it help in correction of multiple substitutions.

Evolutionary analyses were conducted in MEGAX by Neibour joining method. The 236 nucleotide sequences of COI gene were involved in analysis including 43 newly generated sequences of Passeriformes and 192 sequences of other species of Passeriformes of Pakistan downloaded from NCBI GenBank and one species *Columbia livia* from another order of birds i-e Columbiformes as an out group. The results showed that the differences in COI sequences were usually higher among the species under family as compared to species under genus. Intraspecific hyplotypes were clustered under monophyletic clades with bootstrap support in thr NJ tree (Figure 4.3).

Following families were having single sample (Bombycillidae, Campephagidae, Certhiidae, Dicaeidae, Hypocoliidae, Nectariniidae, Pittidae, Panuridae, Paradoxornithidae, Vangidae, Regulidae, Remizidae, Rhipiduridae, Scotocercidae, Stenostiridae, Tichodromidae, Troglodytidae, Vangidae, Zosteropidae) while rest were



having multiple species. So far, the most robust phylogeny was attained using COI gene. The overall phylogeny of Passeriformes remained same as previous studies, forming similar split ups and clades [72, 76]. All 235 species of Passeriformes were first split into two clades. One comprising of the 5 species *Acrocephalus concinens*, *Aegithalos concinus*, *Megalurus palustris*, *Locustella naevia* and rest of the species in other clade which were further splited into sub clusters bases on the similarity and differences in theier COI gene sequences. The outgroup has made cluster with Pitta brachyura only which was a single species sequence from family pittidae based on bootstrap analysis.















FIGURE 4.3: Evolutionary relationships of taxa by Neighbour Joining Method

The family wise phylogenetic analysis to explain evolutionary relationship among different species of Passeriformes under each family is explained below:

This family Acrocephalidae<sup>\*\*</sup> of warblers is comprised of 60 species globally but from Pakistan 11 species were reported. COI gene sequence data of 10 species was available and downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. *Iduna caligata* (Booted Warbler) was formerly regarded as conspecific with *I. rama* (Sykes's Warbler), but now overlapping their breeding ranges, with difference in their mitochondrial DNA, morphology and habitat and is monotypic. *Hippolais languida* (Upcher's Warbler) is sister to *H. olivetorum* (Olive-tree Warbler), the two being fairly close to the pair formed by *H. polyglotta* (Melodious Warbler) and *H. icterina* (Icterine Warbler). E populations (E from E Iran) sometimes separated as subspecies magnirostris on basis mainly of slightly paler upper parts, but appear indistinguishable from birds elsewhere in range. Monotypic *Acrocephalus melanopogon* (Moustached Warbler) nominated birds from Austria differ genetically and morphologically from those of subspecies *mimicus* from Kazakhstan (L Alakol); further study needed. Subspecies *albiventris* sometimes included in mimicus, three subspecies are recognized [76, 92].

Acrocephalus agricola (Paddyfield Warbler) has been considered conspecific with one or both of *A. tangorum* and *A. concinens* (Blunt-winged Warbler); differs from each. Subspecies capistratus frequently merged with nominate, while initial discovery of substantial genetic difference (4.5%) between subspecies septimus and nominate [186]. is now considered erroneous, as more detailed DNA analysis found no evidence of molecular structure between these two; the species is perhaps best treated as monotypic [187, 188].Three subspecies recognized.

Acrocephalus concinens (Blunt-winged Warbler) closely related to A. tangorum and, to lesser extent, A. agricola; formerly treated as conspecific with latter. Subspecies hokrae (described from Hokra jheel, Kashmir) has been considered valid, but is also suggested to be a pale colour morph of subspecies haringtoni [188]. Three subspecies recognized. Acrocephalus dumetorum (Blyth's Reed Warbler) are probably closer to A. palustris than to A. scirpaceus; hybridization with former recorded in SE Finland and monotypic [76, 92]. Acrocephalus stentoreus (Clamorous Reed Warbler) considered conspecific with A. australis; populations in Indonesia from this taxa and Hybrids of this species and A. arundinaceus from S Kazakhstan [189]. Currently darker and larger birds from Levant, included as subspecies, and separated as *levantinus*. Four subspecies recognized [76, 92].

The phylogenetic analysis of these 11 species under study showed their monophalytic behavior. All of these species were clustered under one clade and were further grouped into small clades based on their similarity in the COI gene sequences. Both the species of genus Iduna (*Iduna caligata, Iduna rama*) had made one cluster while *Hippolais languida* being single species included from genus Hippolais was split separately.

This family Aegithalidae of Tits is reported with 4 species from Pakistan (avibase.bsc -eoc.org) [141]. COI gene sequence data of 1 species *Aegithalos concinnus* (Blackthroated Tit) was available and downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. Results of our phylogenetic analysis show that *Aegithalos concinnus* [76] has close association with *Acrocephalus concinens* and distinctly related to *Megalurus palustris* [76, 92].

This family Aegithinidae is comprised of 4 species globally, [169] but from Pakistan 2 species were reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence data of 1 species *Aegithina tiphia* (Common Iora) was available and downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes for this study. *Aegithina tiphia* has made a separate split from a clade of 3 species including *Terpsiphone paradisi paradise* and *Hypothymis azurea* therefore show close association with these species but has variation in sequence therefore not included in this clade [76, 92].

This family Alaudidae of larks and sparrows is comprised of 39 species globally, [164] but from Pakistan 18 species were reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence of 5 species was processed in lab and COI gene sequence data of 5 species was available and downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. Current phylogenetic analysis show that all the species are grouped in one big clade and further split into their groups on the bases of genus showing close association among species of one genus [76, 92].

Ammomanes deserti (Desert Lark) has shown four deep divergent lineages through a recent multilocus genetic study and has geographical variation [190]. Numerous subspecies are ranked on the bases of plumage coloration. Subspecies are widely distributed in Afghanistan and Pakistan too. A thorough taxonomic review is required for recognizing subspecies [164]. Eremopterix nigriceps (Black-crowned Sparrow-Lark) relationships was previously obscure, but recent genetic data show it closest to *E. griseus* [190]. Eremopterix griseus (Ashy-crowned Sparrow-Lark) apparently show close relation to *E. nigriceps* and *E. signatus* [190]. Birds of N India, Sri Lanka and S India are treated as monotypic. Eremophila alpestris (Horned Lark) many subspecies are described over vast range recent molecular studies suggest this taxa in Old World [191].

Calandrella brachydactyla (Greater Short-toed Lark) show close relation to C. cinerea, with which often merged, and to C. blanfordi, C. eremica and C. acutirostris; until recently considered conspecific with C. dukhunensis. Melanocorypha bimaculata (Bimaculated Lark) has dgeographic variation and monotypic. Alaudala rufescens (Lesser Short-toed Lark) was previously conspecific with A. somalica, and separately with A. raytal, but show considerable differences in their morphology, [192]. Alauda arvensis (Eurasian Skylark) has been considered conspecific with A. gulgula [164] and vice versa and are probably sisters [190]. Galerida cristata (Crested Lark) has extremely complex internal taxonomy having more than 60 subspecies but identified as two major clades. More research is required on the nomenclature of these taxa [9, 76, 164, 190].

The phylogenetic analysis of these 10 species under study showed their monophyletic behavior. All of these species were clustered under one clade and were further grouped into small clades based on their similarity in the COI gene sequences. Both the species of genus Eremopterix, *Eremopterix griseus* processed in Lab and *Eremopterix nigriceps* downloaded from NCBI grouped togather in single clade showing COI gene sequence similarity. On the other hand *Ammomanes deserti* being single species included from genus Ammomanes was split separately. This family Bombycillidae is closly related to family Dulidae and is comprised of only 3 species under 1 genus Bombycilla globally [164] but from Pakistan only one species is reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence of this species *Bombycilla garrulus* (Bohemian Waxwing) was downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. This species is closely related to *B. japonica* [193] with geographical variation and have only plumage differences [76, 92].

In phylogenetic analysis *Bombycilla garrulus* has made cluster with *Hypocolius ampelinus* the only sequence from family Hypocoliidae indicating close association among them.

This family Campephagidae of cuckoo shrikes is composed of two sub families with total 99 species globally [164] but from Pakistan only 8 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence of one species *Pericrocotus cinnamomeus* (Small Minivet) collected from Pakistan was processed in lab for phylogenetic analysis of Passeriformes. Sister to *P. igneus* [194] sometimes considered conspecific, but little evidence of interbreeding where ranges meet in peninsular Thailand, and different habitat preferences may prevent direct contact [164]. *Pericrocotus cinnamomeus* being single species in analysis split separately [76, 92].

This family Certhiidae of Treecreepers is composed of one genus Certhia with total 9 species globally but from Pakistan only 2 species were reported (https://avibase.bsceoc.org) [141]. COI gene sequence of one species *Certhia hodgsoni* (Hodgson's Treecreeper) was downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. It was formerly treated as conspecific with *C. familiaris*, but showed difference genetically and vocally, showed significant genetic differences based on studies of cytochrome b [164]. During phylogenetic analysis *Certhia hodgsoni* was split alone as no other species from the same family was involved in this analysis but it has shown close association with *Cettia cetti* and *Chodroma muraria* [76, 92]. This family Cinclidae (Dipper) is composed of one genus Cinclus with total 5 species globally [164] but from Pakistan only 2 species are reported (avibase.bsceoc.org) [141]. COI gene sequence of these 2 species *Cinclus cinclus* (Whitethroated Dipper) *Cinclus pallasi* (Brown Dipper) was downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. *C. cinclus* is closest to *C. pallasii*. [164]. The evolutionary analysis in this study involved both species of this family which were grouped togather and showed close association with *Myophonus caeruleus* [76, 92].

This family Cisticolidae is comprised of 4 subfamilies with 161 species [164] but from Pakistan only 11 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene of 5 species Orthotomus sutorius, Prinia buchanani, Prinia hodgsonii, Prinia socialis, and Cisticola juncidis were collected from Pakistan and were sequenced in lab and COI gene sequence of 4 species Prinia crinigera, Prinia gracilis, Prinia inornata and Prinia flaviventris was downloaded from NCBI GenBank and total 9 species were used for phylogenetic analysis of Passeriformes. Nine subspecies are recognized [164]. Results of our analysis showed *Cisticola juncidis* as sister group of Orthotomus sutorius while all other species of genus Prinia were closely related to each other and grouped in one big clade. *Prinia socialis* assertion that Sri Lanka subspecies *brevicauda* differs vocally from others not strongly supported [195]. Four subspecies recognized. *Cisticola juncidis* sometimes considered conspecific with C. haesitatus, and close relationship with C. cherina also postulated. Considerable vocal variation across massive range and complex speculated to warrant treatment as at least three species [196]. Racial identity is uncertain of birds in S New Guinea [197] they show some characters of *laveryi*, but might belong to an as yet undescribed subspecies. Eighteen subspecies currently recognized [76, 92, 164].

The 19 species of family Corvidae are reported from Pakistan (https://avibase.bsceoc.org) [141]. *Corvus macrorhynchos* has shown close association with the COI sequence of *Galerida cristata arenicola* while rest of the species of family were clustered togather showing their monophyletic nature [70, 76, 92, 106, 107]. This family Dicaeidae of flower-peckers is comprised of 55 species globally [164] but from Pakistan only 2 species were reported [141]. COI gene sequence of 1 species *Dicaeum erythrorhynchos* (Pale-billed Flowerpecker was downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. Two subspecies recognized [164]. In our analysis this species has shown close association with species of genus Monticola of family Montacillidae [76, 92].

This family Dicruridae has one genus Dicrurus comprised of 26 species globally but from Pakistan only 4 species were reported (https://avibase.bsc-eoc.org) [141]. One species *Dicrurus leucophaeus* (Ashy Drongo) was sequences in lab whereas COI gene sequences of 2 species were downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. In our analysis species of this family have shown monophyletic behavior and all 3 species under analysis were grouped in single clade based on COI gene sequence similarity [76, 92].

This family Emberizidae of old world buntings has one genus Emberizia comprised of 44 species globally [164] but from Pakistan only 16 species were reported (https://avibase.bsc-eoc.org) [141]. Two species *Emberiza lathami* (Ashy Crested Bunting) and *Emberiza buchanani* (Gray-necked Bunting) were sequences in lab whereas COI gene sequence of 13 species sequences of family Emberizidae were downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. 12 species of this family were grouped togather in one big clade and showed its monophyletic nature but 3 species (*Emberiza lathami, Emberiza melanocephala, Emberiza bruniceps*) made a separate cluster and showed close association with the species of genus Leucosticte of family Fringillidae [69, 76, 198, 199].

This family Fringillidae consists of 3 subfamilies i-e Fringillinae, Euphoniinae, and Caruelinae with total 211 species globally [164] but from Pakistan only 30 species were reported (https://avibase.bsc-eoc.org) [141]. One species *Carpodacus erythrinus* (Common Rosefinch) was sequences in lab whereas COI gene sequences of 14 species were downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. All species of this family were grouped in one clade and shown close association [76, 92].

All the members of this family were grouped in one cluster but within cluster 3 species from gnus Carpodacus has shown more association with other members of other genera of the same family instead among themselves. This shows their non-monophylytic behavior *Carpodacus erythrinus* has shown close association with species of genus Fringilla (*Fringilla coelebs, Fringilla montifringilla*) of the same family but *Carpodacus thura* with *Eremopsaltria mongolica* and except *Carpodacus rubicilla* who was part of another cluster and shown association with Cephalopyrus flammiceps.

This family Hirundinidae consists of 89 species globally [164] but from Pakistan only 12 species were reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence of 9 species *Riparia riparia* (Bank Swallow), *Ptyonoprogne rupestris* (Eurasian Crag-Martin), ), *Riparia diluta* (Pale Sand Martin), *Ptyonoprogne fuligula* (Rock Martin), *Hirundo rustica* (Barn Swallow), *Cecropis daurica* (Red-rumped Swallow), *Hirundo smithii* (Wire-tailed Swallow), *Delichon urbicum* (Common House-Martin), *Delichon dasypus* (Asian House-Martin) were downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. All these 9 species of this family has close association with each other and were clustered into a single clade on the baisis of similarity in their COI gene sequence and also shown their monophyletic nature and sub clustered at genus level [76, 92].

This family Hypocoliidae consists of one genus Hypocolius with 1 species *Hypocolius ampelinus* (Hypocolius) globally [164] and same is reported from Pakistan (https://avibase.bsc-eoc.org) [141] and COI gene and phylogenetic analysis showed for Passeriformes that *Hypocolius ampelinus* has close association with *Bombycilla garrulus* [76, 92].

This family Laniidae of shrikes consists of 4 genera and 33 species globally [164] but from Pakistan only 9 species were reported from genus Lanius (https://avibase.bsceoc.org) [141]. Two species *Lanius vittatus* (Bay-backed Shrike) and *Lanius schach* (Long-tailed Shrike) were sequenced in lab whereas COI gene sequences of 6 were downloaded from NCBI GenBank for phylogenetic analysis of Passeriformes. During phylogenetic analysis we observed that all 8 species of genus Lanius were grouped together in one big clade and were further split into subclades based on their respective genera on the bases of similarity in their COI gene sequences [76, 92].

This family Leiothrichidae of shrikes consists of 20 genera and 147 species globally globally [164] but from Pakistan only 14 species were reported (https://avibase.bsceoc.org) [141]. One species *Trochalopteron lineatum* (Streaked Laughingthrush) was sequences in lab whereas COI gene sequences of 5 species were available on NCBI GenBank for Passeriformes. Both the species under genus Trochalopteron were not sister species but showed association during evolutionary analysis and were clustered together but *Trochalopteron lineatum* have more association with *Turdoides malcolmi* from the same family rest of the sepecies were in same cluster but being single specimen from each genus split separated under same clade [76, 92].

This family Locustellidae of shrikes consists of 12 genera and 63 species globally [164] but from Pakistan only 4 species were reported (https://avibase.bsc-eoc.org) [141]. Two species *Megalurus palustris* (Striated Grassbird) and *Locustella naevia* (Common Grasshopper-Warbler) COI gene sequence were available on NCBI Gen-Bank for Passeriformes analysis and both made one clade showing close association with each other being member of the same family [76, 92].

This family Monarchidae is comprised of 14 genera with 105 species globally [164] but from Pakistan only 2 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence of 1 species *Terpsiphone paradisi* (Indian Paradise-Flycatcher) collected from Pakistan was sequenced in lab and COI gene sequence of 1 species *Hypothymis azurea* (Black-naped Monarch) was found on NCBI GenBank downloaded and used for analysis and both of these species showed close association and grouped in one clade [76, 92].

This family Motacillidae is comprised of 7 genera with 66 species globally [164] but from Pakistan only 18 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene of 2 species Anthus richardi (Richard's Pipit) and Anthus trivialis (Tree Pipit) collected from Pakistan were sequenced in lab but BOLD database did not assignes any BIN to them and at NCBI database sequences were not matched with

such species therefore were not included in this analysis and COI gene sequence of 11 species was found on NCBI GenBank retrieved and were used for phylogenetic analysis of Passeriformes. 11 species were under 2 genera Motacilla and Anthus and results of phylogenetic analysis showed clustering of 7 species of genus Anthus under one cluster and 4 species of genus Motacilla under another cluster showing their monophyletic nature [76, 92].

This family Muscicapidae is comprised of 4 subfamilies and 335 species globally [164] but from Pakistan only 57 species were reported (https://avibase.bsc-eoc.org) [141]. COI gene of 5 species Copsychus fulicatus (Indian Robin), Copsychus saularis (Oriental Magpie-Robin), Myophonus caeruleus (Blue Whistling-Thrush) Phoenicurus ochruros (Black Redstart) and Oenanthe picata (Variable Wheatear) collected from Pakistan were sequenced in lab and COI gene sequences of 32 species were downloaded from NCBI GenBank and used for phylogenetic analysis. Results showed close association among different species of one genus and they made different clades under genera [76, 92]. 5 species were grouped in one cluster from the same family Hypsipetes leucocephalus from other family. Members of genus muscicapa were clustered together with other members of genus Facedula of the same family. In the same way members of genus Phoenicurus, Monticola, Saxicola and Oenanthe were clustered togather in their respective clades based on their COI gene sequence similarity and showed their monophyletic nature [94].

This family Nectariniidae is comprised of 13 genera and 147 species globally [164] but from Pakistan only 2 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence of these 1 species *Aethopyga siparaja* (Crimson Sunbird) was available NCBI GenBank downloaded and used in evolutionary analysis. It split separately but was showing close association with *Carpospiza brachydactyla* [76, 92].

This family Oriolidae is comprised of 4 subfamilies and 38 species globally [164] but from Pakistan only 5 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene of 1 species *Oriolus oriolus* (Eurasian Golden Oriole) collected from Pakistan was sequenced in lab and COI gene sequence of 1 species *Oriolus chinensis* (Black-naped Oriole) was found NCBI GenBank and downloaded and used to

find phylogenetic relationship with each other and other species. It was observed that both have close association with each other and made one clade [70][76, 92].

This family Paridae is comprised of 14 genera and 60 species globally [164] but from Pakistan only 10 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene of 1 species *Parus major* (Great Tit) collected from Pakistan was sequenced in lab and COI gene sequences of 6 species *Cephalopyrus flammiceps*, *Periparus ater Periparus rubidiventris*, *Lophophanes dichrous*, *Cyanistes cyanus Parus monticolus* were downloaded from NCBI GenBank and total 7 species were used for phylogenetic analysis of Passeriformes. All these species were grouped in one clade and further in sub clades genus wise except *Cephalopyrus flammiceps* has shown close association with *Carpodacus rubicilla* [76, 92].

This family Panuridae is comprised of 1 genus and 1 species Acrocephalus concinens (Bearded Reedling) globally [164] and same is reported from Pakistan (vibase.bsceoc.org) [141]. COI gene sequence of this species was downloaded from NCBI Gen-Bank and used for phylogenetic analysis of Passeriformes. Acrocephalus concinens has shown close association with Aegithalos concinnus [76, 92].

Two species of this family Paradoxornithidae were reported from Pakistan which are vulnurable (https://avibase.bsc-eoc.org) [141]. COI gene of 1 species *Chrysomma sinense* (Yellow eyed Babbler) collected from Pakistan was sequenced in lab and used for phylogenetic analysis of Passeriformes. *Chrysomma sinense* was split separately as being one species present in analysis [76, 92].

This family Passeridae of old world sparrows is comprised of 8 genera and 43 species globally [164] but from Pakistan only 10 species are reported (https://avibase.bsceoc.org) [141]. COI gene of 3 species *Passer hispaniolensis* (Spanish Sparrow), *Passer cinnamomeus* (Russet Sparrow), *Gymnornis xanthocollis* (Chestnut-shouldered Petronia) were collected from Pakistan and were sequenced in lab but BIN was not assigned to *Gymnornis xanthocollis* and match on the basis of similarity was not available at NCBI therefore was not included in analysis. COI gene sequence of 6 species was downloaded from NCBI GenBank and total 7 species were used for phylogenetic analysis of Passeriformes. They were all grouped in one big clade and further grouped into small clades based on genus as Passer and other genera [76, 92, 95].

This family Pellorneidae is comprised of 14 genera and 64 species globally [164] but from Pakistan only 2 species are reported which are near threatened (avibase.bsceoc.org). COI gene sequences of 2 species *Laticilla burnesii* (Rufous-vented Prinia) and *Pellorneum ruficeps* (Puff-throated Babbler) were downloaded from NCBI GenBank and total 2 species were used for phylogenetic analysis of Passeriformes. *Laticilla burnesii* has shown close association with *Pellorneum ruficeps* during phylogenetic analysis being member of same family [76, 92].

This family Phylloscopidae is comprised of 1 genus Phylloscopus and 78 species globally [164] but from Pakistan only 17 species are reported (https://avibase.bsceoc.org) [141]. COI gene of 2 species *Phylloscopus xanthoschistos* (Gray-hooded Warbler), *Phylloscopus affinis* (Tickell's Leaf Warbler) collected from Pakistan were sequenced in lab but no BIN as assigned to *Phylloscopus xanthoschistos* therefore was not included in analysis. The COI gene sequences of 6 species were downloaded from NCBI GenBank database and total 7 species were used for phylogenetic analysis of Passeriformes. All species made one big clade of these species during phylogenetic analysis and showed monophyletic behaviour [76, 92].

This family Pittidae is comprised of 48 species under genus Pittas globally [164] but from Pakistan only one species is reported (https://avibase.bsc-eoc.org) [141]. We downloaded COI gene sequence of this species *Pitta brachyura* (Indian Pitta) from NCBI GenBank for phylogenetic analysis of Passeriformes. Formerly this species was treated as conspecific with *P. nympha*, and with *P. elegans* and is monotypic [164]. *Pitta brachyura* in this study has split separately and made clade with out-group [76, 92].

This family Prunellidae is comprised of 1 genus Prunella and 12 species globally [164] but from Pakistan only 7 species are reported (https://avibase.bsc-eoc.org) [141]. We downloaded COI gene sequences of 4 species from NCBI GenBank based on their availability for phylogenetic analysis of Passeriformes. All species

were grouped into one clade based on COI gene sequence similarity and showed monophyletic nature [76, 92].

This family Pycnonotidae of bulbuls is comprised of 31 genera and 158 species globally [164] but from Pakistan only 5 species are reported (https://avibase.bsceoc.org) [141]. COI gene of 2 species *Pycnonotus leucogenys* (Himalayan Bulbul), *Hypsipetes leucocephalus* (Black Bulbul), collected from Pakistan were sequenced in lab and COI gene sequence of 2 species *Pycnonotus cafer* (Red-vented Bulbul) and *Pycnonotus jocosus* (Red-whiskered Bulbul) was downloaded from NCBI database and total 4 species were used for phylogenetic analysis of Passeriformes. All 3 species under genus Pycnonotus were grouped together based on similarity in their COI gene sequences but *Hypsipetes leucocephalus* split separately and has shown association with members of genus Copsychus [76, 92].

This family Regulidae is comprised of 1 genus Regulus and 6 species globally [164] but from Pakistan only 1 species *Regulus regulus* (Goldcrest) is reported (https://avibase.bsc-eoc.org) [141]. COI gene of this species was downloaded from NCBI database and used for phylogenetic analysis of Passeriformes. It was split alone separately but has shown association with *Cisticola juncidis* [76, 92].

This family Remizidae is comprised of 3 genera and 12 species [164] but from Pakistan only 2 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene of 1 species *Remiz pendulinus* (Eurasian Penduline-Tit), was downloaded from NCBI database and used for phylogenetic analysis of Passeriformes. *Remiz pendulinus* was splited separately [76, 92].

This family Rhipiduridae is comprised of 3 genera and 65 species globally but from Pakistan only 2 species are reported. COI gene of 1 species *Rhipidura aureola* (White-browed Fantail) was downloaded from NCBI database and used for phylogenetic analysis of Passeriformes. It showed close association with *Tephrodornis pondicerianus* [76, 92].

This family Scotocercidae is comprised of 3 subfamilies 12 genera and 37 species

globally [164] but from Pakistan only 5 species are reported (https://avibase.bsceoc.org) [141]. COI gene of 1 species *Cettia cetti* (Cetti's Warbler), was downloaded from NCBI database and used for phylogenetic analysis of Passeriformes. *Cettia cetti* has shown close association with *Chodroma muraria* being in one clade [76, 92].

This family Sittidae comprised of 3 subfamilies 3 genera and 32 species globally [164] but from Pakistan only 5 species are reported (https://avibase.bsceoc.org) [141]. COI gene of 3 species *Sitta cashmirensis* (Kashmir Nuthatch), *Sitta tephronota* (Eastern Rock Nuthatch) and *Sitta frontalis* (Velvet-fronted Nuthatch) was downloaded from NCBI database and used for phylogenetic analysis of Passeriformes. Species of this family were grouped together into one clade showing monophyletic nature [76, 92].

This family Stenostiridae is comprised of 4 genera and 9 species globally [164] but from Pakistan only 2 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence of 1 species *Culicicapa ceylonensis* was downloaded from NCBI database and used for phylogenetic analysis of Passeriformes. *Culicicapa ceylonensis was splited separatly* [76].

This family Sturnidae is comprised of 3 subfamilies of 32 genera and 123 species [164] but from Pakistan only 10 species were reported (https://avibase.bsc-eoc.org) [141]. COI gene of 3 species Sturnus vulgaris, Pastor roseus, Acridotheres ginginianus collected from Pakistan were sequenced in lab. Sturnus vulgaris was not identified by NCBI database and BOD database has not assigned any BIN therefore it was excluded from analysis. The COI gene sequence of 5 species was downloaded from NCBI database and total 7 species were used for phylogenetic analysis of Passeriformes. Pastor roseus was split separately but showed close association with species of genus Sturnus and all these grouped in one cluster [76].

This family Sylviidae is comprised of 17 genera and 67 species [164] but from Pakistan only 9 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene of 1 species was collected from Pakistan and was sequenced in lab. COI gene sequences of 5 species were downloaded from NCBI database and were used for phylogenetic analysis of Passeriformes. All 6 species were grouped together in one big clade showing monophyletic nature [76].

One species *Tichodroma muraria* (Wallcreeper) of Tichodromidae family is reported from Pakistan (https://avibase.bsc-eoc.org) [141]. COI gene sequence of this species was downloaded from NCBI database and used for phylogenetic analysis of Passeriformes. It was splitted separately but showed association with *Cettia cetti* [76].

This family Timaliidae is comprised of 8 genera and 54 species globally [164] but from Pakistan only 2 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene sequences of these two species *Cyanoderma pyrrhops* (Black-chinned Babbler), *Pomatorhinus erythrogenys* (Rusty-cheeked Scimitar-Babbler) were downloaded from NCBI database and used for phylogenetic analysis of Passeriformes. *Cyanoderma pyrrhops* clustered with *Pomatorhinus erythrogenys* being member of same family during this analysis and shows similarity in COI gene sequences. Stachyridopsis is synonym of Cyanoderma [76].

This family Troglodytidae is comprised of 19 genera and 93 species globally [164] but from Pakistan only 1 species *Troglodytes troglodytes* (Eurasian Wren) is reported (https://avibase.bsc-eoc.org) [141]. COI gene of species collected from Pakistan was sequenced in lab used for phylogenetic analysis of Passeriformes. It splitted separately but showed a close association with *Prunella atrogularis* [76].

This family Turdidae is comprised 2 subfamilies 20 genera and 176 species globally [164] but from Pakistan only 15 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence of 5 species was downloaded from NCBI database were used for phylogenetic analysis of Passeriformes and all 5 were grouped in one clade but further split into smaller clades based on similarity in the COI gene sequences in their respective genus [76].

This family Turdidae is comprised of 2 subfamilies, 20 genera and 176 species globally [164] but from Pakistan only 15 species are reported (https://avibase.bsc-eoc.org) [141]. COI gene sequence of 5 species was downloaded from NCBI database and used for phylogenetic analysis of Passeriformes. All 5 were grouped in one

This family Vangidae is comprised of 2 subfamilies, 21 genera and 40 species [164]. From Pakistan only 1 species Tephrodornis pondicerianus is reported [141]. COI gene of it was sequenced in lab and used for phylogenetic analysis of Passeriformes and it has shown close association with *Rhipidura aureola* [76].

This family Vangidae is comprised 2 subfamilies 21 genera and 40 species [164] but from Pakistan only 1 species *Tephrodornis pondicerianus* are reported (avibase.bsceoc.org) [141]. COI gene of it was sequenced in lab and used for phylogenetic analysis of Passeriformes and it has shown close association with *Rhipidura aureola* [76].

This family Zosteropidae is comprised 10 genera and 57 species globally [164] but from Pakistan only 1 species *Zosterops palpebrosus* was reported (avibase.bsc-eoc.org) [141] its COI gene sequence was processed in lab and used in phylogenetic analysis. During phylogenetic analysis it showed close association with *Sylvia nana* [76, 111].

# Chapter 5

# Conclusion and Future Recommendations

## 5.1 Conclusion

Passeriformes is a morphologically diverse, species rich and largest (60%) order of the class Aves (birds). It is represented in all terrestrial habitats, distributed all over the world except Antarctica and generally well identified on morphological and molecular bases globally. Species characterization and phylogenetic analysis using DNA barcodes based on COI gene (cytochrome c oxidase subunit I) of mitochondrion was aimed for birds sampled from different area of Pakistan.

The first objective of the study was molecular characterization of species of Passeriformes. First of all collected samples of birds were morphologically identified referencing the T. J. Roberts [15] as 49 species from 39 genera and 18 familis of order Passeriformes. Then after successful extraction of mitochondrial DNA from keel tissues folmer region comprising 650 bps of CO1 gene were amplified using universal primers. The PCR products were then confirmed using 1% agarose gel electrophoresis. BLAST analyzed of sample sequences were performed using NCBI and BOLD database. Comparison of classical and molecular taxonomy of samples of Passeriformes of Pakistan at genus, family and species level was inferred by referencing the literature by Roberts (1992) for classical taxonomy and BOLD (Barcode of Life Data System) databases for molecular taxonomy.

- Samples were morphologically identified referencing the T. J. Roberts [15] as 49 species from 39 genera and 18 family of order Passeriformes Total 43 out of 49 sequences were identified as species of order Passeriformes based on the best matches by comparing their similarity percentage with other sequences in the database.
- 2. Out of 43 species sequences, 32 were ranging from 97-100 % identity with their respective species. Species sequences of 10 (Hypsipetes leucocephalus, Urocissa flavirostris flavirostris, Phylloscopus affinis, Lanius vittatus Valenciennes, Stachyrdopsis pyrrhops, Emberiza lathami, Prinia hodgsonii, Copsychus fulicatus, Prinia buchanani, Myophonus caeruleus, Alauda gulgula australis) were showing similarity < 97 % but with other species of same genus. Further verification at molecular level was performed using the Barcode of Life Data System (BOLD).</p>
- 3. BINs were assigned to 43 sequences representing 42 BINs. Single BIN was assigned to 2 species (*Prinia buchanani Blyth, Prinia hodgsonii Blyth*, BOLD: ACZ2474). Out of these 42 BINs 32 records were taxonomically concordant. Rest of 11 (*Lanius vittatus, Copsychus fulicatus, Oriolus oriolus, Parus major, Stachyridopsis pyrrhops, Hypsipetes leucocephalus, Urocissa flavirostris flavirostris, Alauda gulgula australi, Prinia buchanani Blyth, Prinia hodgsonii Blyth, Cisticola juncidis*) records out of 42 showing unique BINs, as single new record of respective species Passeriformes of Pakistan and have not been submitted from another region of the world in the BOLD database. The comparison revealed changes at different taxonomic levels of 17 species by our study.

The second objective of the study was to compare the genetic diversity and to establish evolutionary relationship based on COI gene of the different species of Passeriformes from Pakistan and the world. Sequence analysis was performed to establish evolutionary relationship of study data and worldwide species of Passeriformes were retrieved from AVIBASE database using MEGAX. The worldwide COI gene sequence data of 192 species of order Passeriformes were retrieved from GenBank (NCBI) database and phylogenetic relationship was established of 236 barcodes including 43 sequences barcodes of Passeriformes along with out-group.

- Sequence analysis revealed variation in frequencies of each nucleotide (ATGC) in the barcode region of Passeriformes species of Pakistan at the three codon positions, 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup>. K2-parameter distances indicates that that average evolutionary divergence among species of Passeriformes was 0.18 the least average evolutionary divergence was 0.019 among Lanius isabellinus and Lanius collurio in the same way this average evolutionary divergence among other species of genus Lanius was very low as 0.022 among Lanius tephronotus and Lanius cristatus the highest was 0.263 among Rhodospiza obsoleta and Ptyonoprogne rupestris and among Rhodospiza obsoleta and Cercotrichas galactotes.
- Evolutionary analyses showed that the differences in COI sequences were usually higher among the species under family as compared to species under genus. Intraspecific hyplotypes were clustered under monophyletic clades with bootstrap support in the NJ tree. The overall phylogeny of Passeriformes remained same as previous studies, forming similar split ups and clades. All 235 species of Passeriformes were first split into two clades. One comprising of the 5 species *Panurus biarmicus, Aegithalos concinnus, Megalurus palustris, Locustella naevia* and rest of the specises in other clade which were further splited into sub clusters bases on the similarity and differences in theier COI gene sequences. Species under one genus and species under one family were grouped together in each clade showing the similarity in their COI gene sequences and showing their monophyletic nature.

• DNA barcoding was proved to be an effective tool for species molecular identification and their phylogenetic analysis during this study which may help in identification and biogeographic studies of the birds in future.

## 5.2 Recommendations

DNA barcodes were proved as tool for genetic identification of different specimens of Passeriformes and for the contribution in generating a sequence library high quality data is required to answer different biological questions. The COI sequences of birds submitted in BOLD library have many applications they provide information about genetic, and biodiversity from all over the world. This information can help to device different conservation strategies for endangered and threatened species. The DNA barcodes of birds provide opportunity to answer questions related to avian evolution along with primary purpose of characterization of avian species. The following recommendations are proposed for future studies to get complete picture of avian biodiversity of Pakistan and the evolutionary relationship among themselves.

- Multiple numbers of the same specimens should be included in future studies to compute the interspecific genetic variation among species of passeriformes.
- Extensive collection at different time period of year and season within Pakistan should be conducted to study the maximum families and genera of order Passeriformes. It will help include unavailable species due to their migratory behavior and will help find complete picture of biodiversity and evolutionary relationship among species of Passeriformes from Pakistan.
- Only species level studies of Aves have been conducted in Pakistan so far. There is a need to cover other orders of class Aves form Pakistan to find the genetic diversity within the class and to establish evolutionary relationship. This can provide better understanding of genetic changes accumulated in Class of Aves of Pakistan and worldwide.

• Genetic markers other than COI, such as COII, COII and whole genome sequencing should be performed to have complete picture of genetic diversity of Passeriformes of Pakistan.

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# Appendix A

Species Names	Weight	Body	Col-	Wing	Col-	Tail	Col-	Bill	Col-	$\mathbf{Eye}$	Color	Legs & Feet	Nape
		or/Length		or/Leng	$\mathbf{th}$	or/Leng	th	or/Length	ı	(Iris)		Color	
	(grams)	(cm)		(cm)		(cm)		(mm)					Color
Eurasian or Com-	0.14 - 0.15	Pale sandy	yel-	Blackish	Brown	Dark bro	wn with	Pinkish bro	own	Dark b	rown	Fleshy brown	Blackish
mon Skylark		low				creamy n	nargins						Brown
		16.8-20											
				M: 11.4-1	1.6	6.5 - 7.6							
				F: 9.8-10.	6			15-16cm					
Crested Lark	0.27 - 0.28	Pale Sandy	with	Pale whit	e	Greyish I	Black	Greyish wh	nite or	Yellowi	sh	Fleshy brown	Grey
		greyish	black					horny brow	m	brown			
		streaks on o	crown										
		and back											
		17-18				5.26.3		20-22					
				M: 10.3-1	0.6								
				F: 9.5-9.8									

TABLE 1: (a) Morphometric Data of study specimens used for morphological characterization

Oriental Skylark		Brown		8.5-10cm		4.9-6.8m	m white	14-16mm		Hazal brown	Fleshy brown	Grey
		16-16.5 cm						Horney b	rown			
Fan- tailed warbler	6-8 g	Roufus bro	vn	Blackish	brown	Blackish	brown	Dark brow	wn	Hazal brown	Fleshy brown	black
		10cm		4.5-5.5cm	L	3.6-4.7cr	n					
Bimaculated Lark	0.907 - 0.964	white		Creamy	with	Dark bro	own	Horney	yellow	Brown	Yellowish	
				dark brov	vn tips			with black	kish tip		Brown	
		16-19		11.6-12.6		5-6.1		17-18				
Ashy-crowned	0.60-0.69	Pale ashy grey		Greyish b	brown	Dark	blackish	Black		Hazel to red-	Fleshy brown	Greyish brown
Sparrow-lark						brown				dish brown		
		13-13.5		7.2-8		3.7-4.5		1-1.3cm				
Greater Short-toed	19-25	Greyish brown		Blackish	Brown	Blackish	Brown	horny bro	own	Brown	Fleshy brown	Blackish
Lark												Brown
		15 - 16.5						37-42				
				M: 9.4-10	.1	M: 5.4-6	.5					
				F: 9.8-10.	.6	F: 5.3-5.	7					
Rufous-fronted	5-Sep	Mousy gr	ey	Mousy	grey	Dark	Rufous	Brown		Orange brown	Pale Fleshy	Mousy grey
Prinia		brown		brown		Brown					Brown	Brown
		12										
				.1 - 5.5		5.3 - 6.0						
								Dec-14				
Ashy Prinia	6-7.5	Dark Grey		Rufous	Brown	Rufous I	Brown	Black		Hazel brown to	Fleshy Brown	Grey
				with pale	tips					yellow brown		
		12-13		4.7-5.8		5-5.4		13-15				
Grey-breasted	5-Jul	Grey Brown	1-	Chestnut	brown	Chestnu	t brown	Dark brow	wn	Crimson	Fleshy Brown	Brownish
Prinia		13				with	blackish					
						grey spo	ots					

				4-May	307-5.0	13-14			
Rufous Tree pie	141-146	Dark brown 36 5-45	sooty	Black	Dark grey	Slaty blue	Orange brown	Dark brown	Slaty grey
		00.0-10		13.7-15.9	19.3-25.7				
						32-37			
House Crow	266-280	Grey		Jet Black	Black	Black	Dark brown	Black	Grey
		43		25-275	17	51-56			
Common Raven	907-964	Black		Purple, steel blue lights	White	Black	Dark brown	Shiny Black	Brownish
		M:60-62		40-44	24	64-75			
Carrion Crow	600-690	Black		Glossy Black	Dark brown	Black	Dark brown	Black	Black
		50		33-35	19	58-60			
Yellow-billed Blue	130-165	Pale lemon	n yel-	Slaty purplish	Blue	Paler orange yel-		Bright orange	White
Magpie		low				low		yellow	
		63-65		17.8-19	44-47	37-42			
Common Wood- shrike	141-146	Dark brown 36.5-45	sooty	Black	Dark grey	Slaty blue	Orange brown	Dark brown	Slaty grey
				13.7-15.9	19.3-25.7				
						32-37			
Small Minivet	141-146	Dark blue - 15	grey	Orange patches	Pale orange	Black	Dark brown	Black	Grey
				6.4-7.0	6.4-76	1.1-1.4cm			

Glossy Black	Dark slaty grey blue	Black	Red blood or crimson	Black	Dark slaty
12.4-14.5	12.7-17	25-28			
Black	Blackish with pale chestnut	Reddish brown	Dark brown	Yellowish brown	Grey brown
	margins				
8.5-9.1	7.5-7.9	13.8-14.5			
Dull chestnut	Dull chestnut	Black with paler	Dark brown	Fleshy brown	Grey brown
brown	brown	tints			

Dark brown

Dark brown

Scarlet red

Ashy Drongo

Grey-necked

Crested Bunting

Common Rosefinch 20-22

Bunting

32 - 45

18-26

23.5 - 26

Glossy Black

lower belly

25 - 26

 $\operatorname{Pale}$ 

parts 14.5

16.5

14.5

with lighter grey

white with grey

neck and roufus chest nut under

Steely blue black

Pinkish Rosy

brown

7.9 - 8.8

margins

8.3 = 8.6

Dark grey brown

ith paler grey

6.7 - 7.1

margins

5.5-6

Dark grey brown

ith paler grey

creamy

Browning horn-

11-Dec

ing

9-Oct

150

Bay-backed Shrike	0.27-0.28	Whitish		Black	Blackish in cen- tre with whitish tips	Black		Dark brown	Black	Grey
		18-19		8.2-9.0	8.1-9.6	1.5-1.8 cr	n			
Long-tailed Shrike	0.90-0.96	Black		Blackish brown	Pale orange chestnut	Black		Dark brown	Black	Pale grey
		24-26		9.1-9.7	10.7-12.3	1.9-2.3				
Indian Robin	141-146	Dark brown 36.5-45	sooty	Black	Dark grey	Slaty blu	e	Orange brown	Dark brown	Slaty grey
				13.7-15.9	19.3-25.7					
Black Redstart	266-280	Grey 43		Jet Black 25-275	Black 17	32-37 Black 51-56		Dark brown	Black	Grey
Oriental Magpie- robin	907-964	Black M:60-62		Purple, steel blue lights 40-44	White 24	Black 64-75		Dark brown	Shiny Black	Brownish
Variable Wheatear	600-690	Black 50		Glossy Black 33-35	Dark brown 19	Black 58-60		Dark brown	Black	Black
Indian Paradise- flycatcher	18-22	White 20-22		black streaks	Blue	Bright blue 22-26	$\operatorname{cobalt}$	Dark brown	Bluish grey	Metallic blue black
		20-22		0.3-3.3	10-11.0	22-20				

Richard's Pipit	0.14-0.15	Pale Greyish	Dark Grey Brown	Dark brown	Horny brown	Brown	Pinkish yellow	Pale Greyish
		15	7.5-8.6	4.9-5.8	1 5 1 7 and			
Tree Pipit	0.25-0.28	Olive Brown 15-15.5	Creamy 8.3-9.4	Blackish Brown 5.4-6.6	1.5-1.7cm Dark brown 1.4-1.6cm	Brown	Fleshy brown	Cream yellow
Eurasian Golden Oriole	65-70	Golden yellow 23-26	Black 14.1-14.3	yellow 8.5-9.9	Dull Crimson/ pinkish 29-33	Crimson	Bluish grey	Brownish
Spanish Sparrow	20-28	Dark liver chest- nut 16	Dark brown	Dark brown	Horney brown	Dark brown	Horney brown	Olive grey
			7.3-8.7	5.5-5.9	Dec-14			
Chestnut- Shouldered-Bush	15-20	Grey brown	Bright chestnut shoulder patch	Dark greyish brown	Black	Dark brown	Grey	Grey
Sparrow		15	7.8-8.3	4.9-5.4	Dec-13			
Russet Sparrow	21	Bright cinnamon chestnut 13.5-15	Blackish brown 7-7.5	Blackish brown 4.6-5.5	Jet Black 10-Nov	Reddish brown	Fleshy brown	Bright cinna- mon chestnut

Common Wood- shrike	141-146	Dark brown 36.5-45	sooty	Black	Dark grey	Slaty blue	Orange brown	Dark brown	Slaty grey
				13.7-15.9	19.3-25.7				
						32-37			
Great Tit	266-280	Grey		Jet Black	Black	Black	Dark brown	Black	Grey
		43		25-275	17	51-56			
Himalayan bulbul	907-964	Black		Purple, steel blue lights	White	Black	Dark brown	Shiny Black	Brownish
		M:60-62		40-44	24	64-75			
Black bulbul	600-690	Black		Glossy Black	Dark brown	Black	Dark brown	Black	Black
		50		33-35	19	58-60			
Tickell's Leaf- Warbler	141-146	Dark brown 36.5-45	sooty	Black	Dark grey	Slaty blue	Orange brown	Dark brown	Slaty grey
				13.7-15.9	19.3-25.7				
						32-37			
Lasser Whitethroat	266-280	Grey		Jet Black	Black	Black	Dark brown	Black	Grey
		43		25-275	17	51-56			
Grey hooded war- bler	907-964	Black		Purple, steel blue lights	White	Black	Dark brown	Shiny Black	Brownish
		M:60-62		40-44	24	64-75			

Common Tailor- bird	600-690	Black	Glossy Black	Dark brown	Black	Dark brown	Black	Black
		50	33-35	19	58-60			
Bank Myna	64-76	Slaty grey	Black	Black	Yellow/ orange yellow	Dark red	Paler yellow	Black
		22.8	11.9-12.5	6.8-7.3	18-21			
Rosy Starling	53-73	Pale brownish pink	Glossy Black	Glossy Black	Brown	Dark brown	Yellowish brown/red	Black
		22.8	12.4-13.5	6.5 - 7.5	21-23	1-23		
Common starling	65-72	Black with metallic purple green tints	Purple, steel blue lights	Black with metallic purple green tints	Greenish brown	Dark brown	Reddish brown	Purple
		19	10.8-11.8	5-Jun	25			
Bank Myna	64-76	Slaty grey	Black	Black	Yellow/ orange yellow	Dark red	Paler yellow	Black
		22.0	11.9-12.5	6.8-7.3	18-21			
Rosy Starling	53-73	Pale brownish pink	Glossy Black	Glossy Black	Brown	Dark brown	Yellowish brown/red	Black
		22.8	12.4-13.5	6.5 - 7.5	21-23		510111/104	

Common starling	65-72	Black with metallic purple green tints 19	Purple, steel blue lights 10.8-11.8	Black with metallic purple green tints 5-Jun	Greenish brown 25	Dark brown	Reddish brown	Purple
Yellow -eyed Bab- bler	Dec-20	Chestnut brown 17-18	Chestnut brown 6.5-7	Brown 8.5-9	Black 14.5-15	Orange yellow	Fleshy yellow	Brown
Streaked Laughing thrush	38-46	Greyish Brown 20-21	Rufous Brown 7.4-7.7	Brown	Dusky brown 18	Reddish brown	Fleshy Brown	Greyish Brown
Blach-chinned bab- bler	10-11.5	Olive Brown 12	Olive Brown 5-5.3	Paler 5.5	Dull horny brown 15-16	Crimson	Pale brownish	Olive Brown
Blue Whistling- Thrush	141-146	Dark sooty brown 36.5-45	Black	Dark grey	Slaty blue	Orange brown	Dark brown	Slaty grey
			13.7-15.9	19.3-25.7	32-37			
Oriental White - eye	7.5-10.1	Bright golden greenish yellow	Dark brown	Dark brown ith olive green mar- gins	Black	Yellow brown /hazal	Dark blue grey	Bright yellow
		10	5.5-5.7	3.3-3.7	9-Oct			

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(a) Alauda arvensis intermedia Eurasian Skylark



(c) Melanocorypha bimaculata Bimaculated Lark



(b) Galerida cristata arenicola Crested Lark



(d) Eremopterix griseus Ashy-crowned Sparrow-lark



(e) Calandrella brachydactyla Greater Short-toed Lark



(f) Prinia buchanani Blyth Rufous-fronted Prinia



(g) Prinia socialis socialis Ashy Prinia



(i)  $Dendrocitta\ vagabunda\ saturatior\ Rufous\ Tree\ pie$ 



(h) Prinia hodgsonii Blyth Grey-breasted Prinia



(j) Corvus splendens splendens House Crow



(i) Lanius vittatus Valenciennes Bay-backed Shrike

(j) Lanius schach schach Long-tailed Shrike



(a) Saxicoloides fulicatus Indian Robin



(c) Copsychus saularis saularis Oriental Magpie-robin



(e)  $Terpsiphone\ paradisi\ paradise$  Indian Paradisefly<br/>catcher



(g) Anthus trivialis Tree Pipit



(i) Passer hispaniolensis Spannish Sparrow



(b) Phoenicurus ochruros Black Redstart



(d) Oenanthe picata Variable Wheatear



(f) Anthus richardi Richard's Pipit



(h) Oriolus oriolus Eurasian Golden Oriole



(j) Petronia xanthocollis xanthocollis Chestnut Shouldered-Bush Sparrow



(a) Passer rutilans rutilans Russet Sparrow



(c) Parus major Great Tit



(b) Tephrodornis pondicerianus Common Woodshrike



(d) Pycnonotus leucogenys Himalayan bulbul



(e)  $Hypsipetes \ leucocephalus$  Black bulbul



(f) Phylloscopus affinis Tickell's Leaf-Warbler



(g) Sylvia curruca curruca Lasser White<br/>throat



(h) Seicercus xanthoschistos Grey hooded warbler



(i) Orthotomus sutorius Common Tailorbird



(j) Acridotheres ginginianus Bank Myna



(a) Sturnus roseus Rosy Starling



(c) Chrysomma sinense Yellow -eyed Babbler



(b) Sturnus vulgaris Common starling



(d) Garrulax lineatus lineatus Streaked Laughingthrush





- (e) Stachyris pyrrhops Blyth Blach-chinned babbler
- (f) Myophonus caeruleus Blue Whistling-Thrush





(g) Zosterops palpebrosus palpebrosus Oriental White eye

(h) Alauda gulgula australis Oriental Skylark



(i) Cisticola juncidis Streaked fantail warbler

FIGURE 1: Images of study specimens used for Morphological characterization

## Appendix B

### Lab Mixtures

#### 1. **70% Ethanol**

Ethanol 70ml Distilled water 30ml Final volume was made up to 100ml

#### 2. PBS Buffer

Use one tablet of PBS in 100ml of water Adjust volume to I L with addition of distilled water

#### 3. Proteinase-K (10mg/mL)

To prepare proteinase-K, 0.01g of proteinase-K was dissolved in 1ml distilled water by inverting eppendorf tube. Now solution was stored at  $-20^{\circ}C$ .

#### 4. 10% (W/V) Sodium Dodecyl Sulphate (SDS)

Ten grams of sodium dodecyl sulphate was dissolved completely in 80 ml of distilled water by continuous stirring and final volume was made up to 100ml. The solution was stored at room temperature

#### 5. Chloroform/Isoamyl Alcohol Solution (24:1)

Chloroform 96ml

Isoamyl alcohol 4ml

Final volume was made up to 100ml. Mix them together to get of solution

#### 6. TE Buffer

Tris-HCI 10mM

#### EDTA 1mM

Tris-HCI (121 g) was added in about 800ml of deionized water and dissolved completely by continuous stirring. Then final volume was made up to 1000ml and the pH of the solution was adjusted at 8.2. Tris10mM was prepared from 1M Tris stock.

#### 7. 5X Tris Borate EDTA (TBE) Buffer

Tris Base 27 g Boric Acid 13.75g EDTA 18.5g

All the chemicals were dissolved and final volume made up to 1 liter. pH of solution was adjust at 8.

#### 8. Ethidium Bromide

Ethidium bromide 1g Distilled water 100ml Dissolved by stirring and stored at room temperature.

#### 9. 6X Bromophenol Blue

Bromophenol blue 25mg Sucrose 4g Dissolved in 10ml of distilled water by stirring and stored at 4  $^{o}C$ 

#### 10. 1% Agarose Gel

Agarose gel 1g

TBE buffer (0.5X) 100ML

One gram of pure agarose was dissolved in 100ml of 0.5X TBE. The mixture Was boiled and then poured into the casting tray and allowed to cool at room temperature.
## Appendix C

Nucleotide Sequence Alignment of COI gene in 235 species of Passeriformes using ClastalW in MEGAX program.

Ohili Sequences Translated Protein Sequences		
Tperses/Altery		
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<ol> <li>BOLD: ARCHOOL (Passer Rispanis)ensis</li> </ol>		
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4. BOLD:AAD0070 Galerida uristata grenincia	FOR A TO ARC ANAL TRUCC BOOK TO TO TRUCK AND DACKARD TO ARC TRAFT OF THE ARC TRAFT TO TRUCK A SOCIETY OF A SOCIETY OF THE ARC TRAFT
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10. BULD: AACINIC Prostanung schrutes	THE ART ATANT DESCRIPTION AND THE TOTAL TO TRATACT DESCRIPTION AND AT ANY AND AND ATANTAL ATANT AT ANY AND
11. BUDIANVALU/Chrysines eligence	TO CARE START START THE COLOR FOR THE TAXET OF TAXET AND TAXE
17. BOLDIARDOODD Lanuar enhants without	THE DAY ADARD DESCRIPTION TO ATTACK OF TAXABLE STREET AND
18. BOLD ACIDATS Prints socialis socialis	TAXANTERIAL PRESS PERCENTERIA DAL DAL DAL CANTANTANTERIA COLLAR AND COLLEGIA DAL REALEMENTE DE LA CALLE
14. BOLD (AAD 44 Helen mutyphe himshilate	TA CART ATTAT DEBOG TO COORD TON TAKE OF TAXENT DEED COORD ATTA ATT COORDINATES ATTAC TO TAXE
15. BOLDIACESTARIACTIONNESS glipinianus	The case afrait waters of source that fait on a marked water or the state and one instant as a state of the fait for
14. BOLD:ACCOUNT:Custionia juncidia	TA CANTTATENT DESCRIPTION TATENTA TRATANTA OF TATENT ON CONTRACT ATTAC ATTAC ATTAC A TATENTA AS ATAC TO TAN THE STATE
17. BOLD(AAE0119) Fastor roseas	To cash a funtion of some fin the fact occupation one could also all con- satisfies the state of the fact to be
18. BOLD:ACTINIO: Experies Builtenets	The constrainty constrainty county for the forest status of the state of the state of county as a state of the forest
19. BOLD:ACBEESS:Eremopterix grieeus	The other advant source and the factor of partner was decided and and encoded the structure advantage a
20. BOLD:AABORT4:Compositioner wrythreniae	TACCESS AT AT AT AN ADDRESS OF AN ADDRESS OF A DESCRIPTION OF A DESCRIPANTA DESCRIPTION OF A DESCRIPTION OF
21. BOLD(AC227W7)Oriobis pricks	Becauttataat massart mean for fast correlatiant massecorphication att contain attataa attataa fit mattat feed
22. BODD:AAB5421/Dorris intes come	TA - ANT ATANT DECEMBER THE TAUTH IS TANTA THE TO CONTACT AND ANT
28. BOLD(AAL2106) Periorocotus clanamineus	TA COMPETENTION OF THE STATE OF THE TAXES OF THE STATE OF THE COLOR OF THE COLOR TERMETER AT INCOME.
24. SOLD:ACL2474:Prints hodgeunti	PROCESSION TO A CONTRACTOR OF THE OWNER
25. BULD(AAR0942) forterops palpehoneus palpenoneus	TACCARTER AND CONCEPTION AND THE TAS TOCCORATES AND ADDRESS FOR AND ADDRESS AND ADDRESS AND ADDRESS ADDRE
14. BOLD:AAHID40/Pyrninotus leurogenys	TA COMPETATATE DE COMPETICIONAL DES TAUTESTICAS CONTRATAS PRODUCCES DE CONTRATAS PERSONNESSES DE TRA PARTESTICAS PERSONNESSES DE TRA PARTESTICAS PERSONNESSES DE TRA PARTESTICAS PERSONNESSES DE TRA PARTESTICAS PERSONNESSES
27. BOLD(&CH111) Phylinscopes affinis	The coart a bandy we have an end of the factor of the factor of the coart of the coart of the factor
14. 00L2:ASH140:Corvus sachoryochus	Berthat three one on the there are the to the the there there there are the to the test of tes
29. BOLDUACET266:Copsychus seularis seularis	In contraction optional finds for first contractions, because the end of the contraction of the first
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23. 80521-AC22335125achyridepala pyrthopa	 TREACCEARE CERCERTSCRIPTERSCORE AND TREEFACTORCOCCEARECO
14. 0010/0C94644/Tempetphone peradist peradist	 CTATACCTHATTECHICSCALEHABOC SOMATANTANETACCOCCCTAANTC
15. BOLD:AAC9713UHyphonis magnileis	 CTOTACCTNATTERCORCECTIONSCORDATESESTACORCECTANGES
14. BOD/ACI2010/Rigripeins Inicoorphalus	 CTCTACCTARTCTTESCOCATERSCOCEDATERTACTACTECCCTARECCT
17. BOLDIARIETITIDictorus landinghaatus	 TRATACTICAS CONCERNMENT CONTACCOCCUTANCE
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40. BOLD (ADMID40) Corvie Recoordigischoe	 CTCTACCTUATORS DECEMBER AND COMMITTER AND CACTORS CONTAINED
41. BOLD:ACHT201/Orthonorus substants	 CTUTACCTRATETECERSICATEASCOREANTAUTACCTCRCTCRCTASCC
42. DOLD/AD9904(Denotite ploats	 CTETA SCRAFT CESCON CATEGORY OF HARAS SHE CACCOCCULATED
43. BOLD: ACTING: Depaydese fullowing	 CTATACCTARTCTTCSSCSCSTSTSSCSSCSTSSTSSTSSTSCCTTCSTSSSCCT
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46. AC-MERINGING LANSING COLLINSIC	 
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al. AC-00440013/Lanius cristania	 CTATACCTART CTC SANGE SANGECCOURS DESCRIPTION CONCERSION
49. 3C-EFG21391(Santuar Septementur	 
10. AC-7F490706 LANDIE excultion	 CENERCOMANE CENERCEMENTAL CONTRACTOR SERVICES CONTRACTOR
EL 32-00002218 (Original entranges)	 TATACCTUATITE COTTOCATOR CONTACTOR COCCERSION
12. AC-30174494 (Dicturus matrocercus	 CTATACCTARTOTTC SSCHOOL SAACCESAATASTTSSTACCSCCCTTRSCC
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14. 3C-3Q174181 (Rhipidure avrecla	 TREACCEARTERS INCREASES IN ATAMETERS ACCOUNTS IN A
15. aC-sC214429 Sypothysis estres	 
14. AC-00481967(Germine glanderine	 CHARACTERISCHIC HIGH CATHLECCHARACTERISTIC COCCULATED
17, SC-JQ17680310rocasa arythrophysica	 CTATACCEART CERTIFICATION CONTACTACE
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2. BULD:AC22414:Prints Buchanana	1121	columb	ter i	TAX:	OTCIGA	CONTRACT.	<b>1</b> 11	caces	CHILL	CILC	51	<b>1</b> 22	di.	terr	1224	- 13	- 16	COLLA	211	TATE	-1
8. BCCD:ACC2564(Alexas guigule sustable	1121	cella a	eccel	tim	OTATOA!	(cante	144	4.11	cel D	inter:	84		ccc	Ree!	10		1000	206-1		126	-1
4. BOLD:AADDTTTIGalerida uristata atenizula	1125		acce:	TATES	PICIAL D	r air ra	124.4	cae ca	cella	in ec	81		cce	tere		10	-	205 A	14	TATE	-
8. BOLDIARCHOOL (Panper hispanicleinis	AL DE		10001	TAT:	STATOL	CANDO	C AND	cace	CA: D		B-1	- 16	căc	dicci	100		10	10131	<b>1</b> 1 -	1121	ci.
8. BCLD:AAC0538(ByDvia currunte curriete	ALC: N	(chuic	1000	110	CTATON!	CC	TANE:	ace.	CONT	er te	te et	1-11	ece!	ti cci	11	Til-	1			1120	1
1. BOLD-AMI9894(Tephrodornia pondicerianus	1125	(c <b></b> .	CCC!	ISICI	91010A	tecisti	CLUAD	14 B	CIND		11			acc)	10	100	18	10-011	<b>11</b>	110	1
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10. BOLD:AAC1538 HomeLourum onbrusca	1125	100.00	eecci	1.1	02 - 26 a)	ec i se	14	că că l	1.1	1 <b>1</b> 1	feet	C228	ect.	facd	1111	-		25614	<u>.</u>	CARG	ct,
11. BOLD: ARVADEL: Chrymosom minenet.	ALC: N		eccil.	TATES	91C10A	CC 100	CIAL:	1.1	CL C		b i	121	100	tec	1022		t de la	CERCA	•	ALTO	1
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14. DOLD:AAX4044 Nalasconrypha bimarulata	110	100	accei	1 III	STOTES	CC	(JAN)	No.	ccati	i di i di c	61	tere	rece	tecc.	1	TAS	8	CEOCA	1.1	1.1	1
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14. MOLDIACHIMIICLASIANIA junciala	ALC: N	taine	t de	100	22 23A	iccari.	(DAB	ares	<b>CALLER</b>	e ne	84	ce fi	ece	Mee)	111	-11	e de la	250.4	14	1120	-1
17. BOLDIARDILPIPARTOR roomus	AXTR.	colando	ecca:	1011	01.101	icci i i	2111	caces	CXIT)		61	coli	cee	ccc:	105	-	ce k	CHOCA	H	1121	đ
14. BILD-AUXIATO Deseries Buthetens	11210		ecce	111	11.144	tec i ti	10.12	4.11	CALL	100	81		ccc	ceci	£.	44	-	122235		1120	1
19. DOLD/ACHIEVE Exemptedia griaeus	1121	colume	acce:	1111	STATES	tecista	221.12	ares.	CIN	ic cc	6 i	1	cēc	000	ini c	10	101	200.1	11	-111	1
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15. SOLD: BALFVIG: Periorocottar cistamoneum	1121	COLUMN 1	222	1.11	01110A	techte	CALL	1.11	celle		16-I	1.11	teet	tie.	1851	120	t de	10044	211	i.t	
24. BCLD:BCZ2474/Prinis hudgeonii	A.4.24	CAAA	ter k	tin the	CTCTCA!	-Auta	CHIAT	Acct	ditt	c 10	64		de	ces	i di ju		-	CERAN	<b>8</b>	-121	-1
25. BOLD-AAR2042: hosterings palpennous palpenneus	1.84	CALL OF	ecec	7811	CITTON	11455	21.12	ace	Chite	1.10	100		tee	ane.	12.	111	1	LOSTA	1.1	AXT:	
28. BOLD-AARSEED Dynamotics Leacoupetgs	1121	come:	ECCC.	TAIL		ecate	CEANE	Acce	CARTS	CAR	100		tece	tte el	12.22	-	1	100-1	1.4	CATA	-1
27. BOLD:ACHIIII: Hyllneorgus affinis	ALTS.	cinit	feee	TOTT	OTCICAL	tice and	1111	1.1	CLATC	1	feet.	1.11	cec	ttee	1971	TAO	14	1000	1.1	1120	1
18. SULD:ANYLMI/Trochalopteron Lineatum Lineatum	LATE	cel 11	tere	TATE	OT THAT	CARTA	21.12	1.11	Chiefe a	CIAC	100	CETA	Ch:	reco	1830	10	10	10111	1-1-	LATS	c i
19. BOLD: ADMILIG: Corver methorypohus	11.25	com a	ecec	TATE	OTATAL	(COM )	tant	ACC 8	Chill)	1	11	tete	cce	Are	111	-this	÷.	1 2 2 2 2 2	111	1120	
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30. SULD-ACE/200 Depayment exclants success	erates mestas retainer to retainer to reach ar shades shows an exerting the sector of the	CONTAGE TAGE TATE TARACTE
EL. BULD-ACZELAD/Partie major	ten ber bereger bar bir baller ber ber bar ander ban bei ban eine bere beite bere bere berer beite	CHATABOO RACCORCACIONARCA DO
32. BULDIAUZZENHIDIOLIANA ELAVIDIALIA ELAVIDIALELA	• constraint so for so the failer for the same as failed the state of same same same same same same same same	TESTAL ATACCCA-CONTRACTOR
83. 9012(ACZ2839):Prachyridopais gyrrhops	ecche propagate a containa de la calenda de la calenda de la contexe	Chical Consecutive Consecutive
14. 0012:ACT+004 Derprightme peredict peredict	CORTAND CONTROL OF THE OF THE OF THE OWNER AND CAUSED AND AND AND AND AND AND AND AND AND AN	TRATAR CLASCER SCREEKER
H. BOLDCARCHTLEONYOPHONIA coercleum	CONTINUED C	CHROME PERSONNAL CONTRACTOR
14. SULD:AC21011 Hypelpetas Leucrosphalus	COMPONENT DE LE DE LE DE LE COLLECTION DE LE MERINE DE LE COLLECTION DE LE C	TERTANCETERCE: ACCOUNTS OF
st. 0010:XAIV11/Dicruius leuniphieus	CONTENT OF A CONTENT OF A CONTENT OF A CONTENT OF A CARDAN CONTENT OF A CONTENT O	TAXABLE LABOR CATE COMMONNESS
38. SOLDIACZION (Entwrine Letten)	CONTERPORTER FOR THE TOTAL CATE OF CONCEPTIONAL CAUSE AND THE ADDRESS AND THE ADDRESS OF TAXES	Charakter recordence substrate
PP. BOLDIAACLPRP:Fenner cinnamowor sutliane	CONTROL DE CONCELECE DE CARECARE DE LAS DELANARE RENARE DE REACARENA DINAL AR DA COCÁCERE DA C	CHOCARCO A SCORE COLLECCE
40. BULD: ADD1101 Dervus macrothypiches	DER TER DER TER TAR DA DA DE TER TER ANTERNAK KAR BERARE KAR TERRETER ANDER TERRETER TAR DE CONTRACT DE SE DE S	CARCANE CARCACACOCCASCOCCAS
41. 9010.ACRE201.Orthotomus siturius	te bie the fre bie fee have fee to be an transferre and the second state the second state for the second state	CONTRACTANCCATECOMA CAN
42. BILLIARRESCOMMENTE piceta	CCCFCCFFCCFACTECFCCFACCFCCFCCFCCACCFFEARACASCACCACCFCFCAAACCAFAFAFCCCCCCCCFFFE	CONTANCOMOCCONCOLTERNOCCON
45. BOLD:ACC2942:Oppsychia fullcatus	ten bestelle ber ber bie bier ber berbeite berbeite bie bestellte bestellte bestellte bestellte bestellte beste	TROTALCO ABCCCATOCTNEROCCE
44. AC- ADDATIS/Fitts Reactyurs	CONTENTS OF TAC DECISE CANCER CONTENTS AND	COSANACC FROCCACOC FRONT
48. AC-70175904(Registize tiphia	CONTROL DE COMO DE CONTROL DE CONTROL DE LA CONTR	ABURASC PERFORMATION CONTINUES
44. 32-00000014(lanuar collaria	THE REPORT OF THE DESCRIPTION OF THE REPORT OF	TOSTAL TRACCOL CONTRACTOR
47. AC-094820201Lanius issbellinus	COMPANY COMPANY AND	THE TAKE DEARCOCK COCKER AND THE
42. AC-DQ4E2ULITLANSIS cristatus	CONTENT CONCEPTION OF CONTENTS AND	THE TAACCESSCORE SCHOOL SCHOOL
45. AC-EPG21550 (Lasius tephronotus	CONTERNATED TO TO TAKE TAKE TO TAKE ANTANAN CANNER AND AN MAN TA MATURAL DESERVOIS CONTENTS	THO FARCE ADDOCATOO FOR ADDOCT
10. AC-29480708 (Lanzus earnitutor	COATCATESCECCECCEACEACCECECESCAACAACAACAACAACAACAACAACAACAACAACAACAA	TESCANCERADCOCATECTEUROCCE
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12. 30-0011404:Decrural metrocercus	CANTANTECTACIACIAS DE PASCETES PERACRATRARIS CARRENDE REALERINA PERACESTA PARESE CARTA COLOCACIA PRACE	TERMANCE AGCCCATECEERSCITE
85. 30-7017469LiDionurus hottentottus	CCCTCATTCCTACTOCTCCTARCCTCATCTACATTACATCATACATCATTATACATCATATATCCCCCATTATA	Testalcoraeccardcosterer
14. AC-JULTEINERShips microla	CONTOCTITITAT FOCTACIONICAT COTTANCANTA MANDEROUNDEROUNDEROUNDEROUNDEROUNDEROUNDEROUNDEROUNDEROUNDEROUNDEROUNDER	TOGRASCOTASCOCATSCORESCOTES
10. ac-scii64829 (Hypothymia anurea	ten bei ander die Merber Daler beite ander ander ander ander beite beite beite beite beite beite beite andere	Choras construction frances of
14. AC-02411001/Germilus glanderous	COLOCATE COLOCATE CONTRACTOR CONTRACTOR AND	CROTANCE TARCCEATOR FRENCHATC
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18. 30-00412471 Fire pice	ter finter ferter falte falle for te far an fananse and bester and findere fan te ferter farte ferter and	THE TARCE TROCCEATE THESE THE
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30. 9012:ACE'0461Copeychus esularis suclaris	In contraction concommendation for for the fair some for the state of a constant of affairs of the fair for the
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32. BULD-ACCEPTION INCOME ELEVISION CONTRACTOR	<ul> <li>Reconstruction construction construction for the first second and the first second construction of the first second con</li></ul>
88. BOLD-ACT2596-Stachyridcawis pythope	Rectary spant control to same the producer fautas from become a to be the cold mathematic state of the becaute
14. SCG2:ACS+004:Terprightms permits) permits)	IN CONTRACTOR AND ADDRESS THE DAY CONTRACTOR ADDRESS ADDRE
H. MIDIACVILINGUISCOUS Descaleur	The state attended on the business of the state of the st
34. SUDACISSINgaipetes learnephalas	To contract the last class for home contracted concerning the contract of the second states of the
st. BOLD AAlwith Dictorurus Imacoghiamus	The constrained constrainty county file that sees that an increase and a the structure of constrainty taxes of the tax to the
18. BULD-ACLIDER Indering Lethani	to out anathing out constitution and constant officers in the effects managers and the fit in the
29. BOLD-LACINES/Busser cinnespens rutilans	for cardination consists county for that the fact over farmations of course and a state of cardinate an entropy of the factor of the
40. BULD: ADVII 401 Corrus mecroshynchics	TA CANTACTAR COMOUNT TO COMME TANTACTAR TA TANTAAT COMPONENTS AT A CONTRACT COMMAND
41. BOLD-ACHE201:Orthonomus sutorius	The contraction many the second restrict on the fact of the second state of the
47. MOLD: AMMENIA: Demanths parate	IN CALL ATAM AND AN AN AND AND AND AND AND AND AND A
48. BOID-ACZ2542+Oppeythie fullostus	It constrained similar some first had beit contraine sind constrained and a state off constrained and the state of states first
44. 30- AD1421031Extts brackpurs	In the state of the second state and the same trace when the second state of the second state at a second state of the second
et. AC-JQ178804 (Aegithing tiphis	Berthertagene engenerateren an fan tant er bertagen beren beren arten titte tet en antan in altan er bie ber ber
44. \$2-MENTRID4 (Lening pullurin)	for hit start concept come builts of ees fastart out eee on she are eet instantial stratter fas to he
al. AC-00482020(lantos issbellinus	Bernan anan seesen be sease bannan bannan con bannan contact and anan an a
47. AC-02612013 (Lanjus oristatus	The far areast successful and the first set to be a set of the set of the set of the far bar bar bar bar first fir be
an. ac-graphed langue orghoperus	In the liter conceptional partial contains one cannot be contained and and and and and and and and and the second s
10. AC-27440703 (Langua samiluter	TA . TA PRATA AT ANALYST TANANA TAATTANT CCA TANTANT INTO CCCARA ATAN ATA
91. AC-90482219 (Ortrice chizesets)	The sufficture consistence of the fair that correcting that could could a fair of the sufficient could have been taken for the fair for
32. 32-7(1748)4(Dictrinus matricerms	The constrained in a constraint where the state over the factor become a state of the constraint of th
\$3. 30-321744Hi illibraria hottestottua	Energia Pranta Prova da Arteria ala Tanta da Bartera Energia Provinsi e de alta da Artera Arteria da Arta de Energia da Arteria d
14. 30-20170131 GRApidure enrents	The TAX ATTAX COMMANY MARKED AND TAX
15. 20-80354829 (Rypothysis anures	TACCORDADORS CONNECTED IN CAR. DISTANT CO. DANKAS TRANS. SCIENCE AND CO. MAXMAN IN ANAL. ST. CO.
14. AC-00413043(Garrulus glanderius	ER CHAT ATAR CONSIGNT COMMENTS AND THE TAR CONCERNMENT OF CONCERNMENTS CONCERNMENTS AND
\$7. 30-X0114808/Grouters erythrochypola	De la france spans presente subale fait fait con faitas propie consistante affecta subartade affecta de fait de
12. 82-62682471 Store plote	De carrier an anne a san de la contrata marte contra ana contrata a marte a san de la carra de la carra de la c
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30. SUDIACE DISCOUPYCHUS sucharis satharis	TO A THE ALL AND THE TAXABLE AND THE TRADUCTION OF TAXABLE AND TAXABLE AT A DATABASE OF TAXABASE OF TAXAB
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12. BOLD ACC2144 Develope Clevicopicie Clevicopicie	te f af that has been been the same of a familie in that has been the faith a faith and the same of the same of the same faith a f
85. BOLDIACELERAVIDUACHURGHIN pythops	ET ELA MEL CALCONACIONAL DA CONTRA CONTRA CONTRA CONTRA CONTRA CONTRA CONTRA CONTRA CONTRA A DE CONTRA CONTRA C
14. BULD:ACS4684 Terpeiphone peradiat paradiat	T TATE ON AND THE TAX CARE STATE TO A TANK A A CARE A TAXAET A CARE A C
<ol> <li>BOLD-BACS*LE(Hynghonus desculsis)</li> </ol>	TE BERTE FRANKEREN ER BERTER AN ER BERTERE ER BERTEREN ER BERTEREN ER BERTEREN ER BERTEREN ER BERTEREN ER BERTE
34. BULDACZIDITINgpespetas lesconophelus	TO PRAYE ON A RANK THE STAR COMPANY OF A PROVIDE A RECOMMENTAL CARDENAL STAR COMPANY OF A RANK COMPANY OF A RANK THE PROVIDE A RANK THE
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19. BULDUARCIJ99/Paneer minnenseer rutilans	HE TAR TO SHE LAND TO THE ARCHIVE TO BE THE DESIGN AND TARDARD AND TARD
40. BOLD APRIL 40 Corvia datasetsysteme	ET E GAT ET MANNE DA IN TEMATEMATE DE CONTE CONTE CONTRACTANTE CANADA CANADA CANADA CANADA CANADA CANADA CANADA
41. BOLD (BCHE281) Orthouseur sutoriae	E MERAE E ERE AREA E REFE E AREE AND AND A COMPANY AND A COMP
47. Bild:AMV930/Generike pirete	DER ANTE GAREANAN DARRECAN CARRECTER DARREN BERANDE DARAN DE AN ORAN DE ARAN DE AR ANTE ARAN DE ARAN DARREN ARAN DE ARAN
43. BOID:ACD2942:Dipeyobie fulloetie	to BAATE OAN AAAA TENEO CAACAAN COOCE AN TENAN ATAN ATAN AAAT TACAATE TACAATE ACONCECTION TAATA TATA TATA TAAT
44. AC- AB343103/Fitts brachgurs	ECTURE CONTRACTORIS CONTRACTORIS CONTRACTORIS AND A DISCONDER DE LA CANTA DE LA CONTRACTORIS CONTRACT
49. AC-20172804(Aegistine tights	te Bare one and gange in calling the call a call and the call be at the same of the same of the same of the same
46. AC-HERISISHILANINA COLLINES	T TANTE ON A DATA PROVA AN COURT TO THE RADIUS OF CAMPUS AN CONTRACT OF TAXE TO THE PARTY OF THE AVAILANCE OF T
47. 30-004920201Lanius issbellinus	te Baary (18) - Kaal- Beerle Baeer in die 1- De Bannes ander die Albert Barre Baar de Baar bereite die de Baars and die Baar
47. AC-02493013(Lensise critenatus	CONTRACTOR CARDER STATEMENT AND CONTRACTOR CARDEN CARDEN CARDEN CARDEN AND CARDEN AND CONTRACT CARDEN CARDEN C
49. AC-EP431590 (Lanius Dephytoprius	TE BAAR ING AND AND AND A ACCOUNT A REPAIR AND A DAMAGED AND A AND A REAL AND A REAL AND A REAL AND A REAL AND A
50. 30-27495756/Lanius wandling	CCELETE AND AND A DARRAM CARDON CONTROL OF TAXABLE AND CARDON AND CARDON AND CONTROL AND CONTROL OF A DARRAM CONTROL AND CONTROL OF A DARRAM CONTROL OF A
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<ol> <li>AC-201748981Decenaria macrostermia</li> </ol>	CONTRACTOR OF AND A DESCRIPTION OF AN A DESCRIPTION OF AN AND AN AND AN AN ADVANCES AND
<ol> <li>AC-2Q174495 (Dicourus Nottestottus)</li> </ol>	TO PEATE 1999 AND DESCRIPTION OF THE PARTY OF THE PARTY OF THE PARTY OF THE ACCOUNTS OF THE PARTY OF THE PART
N. AC-72174131/Bhipidure eureels	CCECKTE CAN CANANA END AND AND CANCELED CONTRACTANTIA CHARTER AND CANTORNEED AND CONTRACTOR FOR THE SECOND STRUCTURE OF A CANTARY CONTRACTOR OF
10. AC-RC06492918jpothysis source	CONTRACTORIS
16. AC-52481363 Gerrulus glanderius	CCEANT COAS-ANNA-TRUSCAS-COURSET STOTE TO TRUBURIE INSCREMENTS FROM TO CATEGORIE CONTRACTOR STOLES AND C
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35. BOLD:SACUTIS:Myophonus caezuleis	AACCEARACE CRACE	CT CURCECCO COSTANDASSANACE	CANTO TO TACCARCANCE CONTRACTOR STATE CONTRACTOR CONTRACTOR CONTRACTOR
16. SOLD:ACLING: Ryprigates Laurenaphalus	ALC: TAALELCCATCHE	TECHACCEASCASSASSASSASSASC	CANTA THEA CAN IN THAT THAT THE CAN CARACTER AND THAT IS
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18. BOLD-ACESO44 Enderting Lathers.	ABCOROLAN CROCKER	CTTTRACCCOCTORALGACEASACC	CTRTCCTATATCAACACCTCTCTCTATTCTTCSGCCACCCAGAACTCTACATCCTAATCCTT
19, BULDIAACI399:Passer clanascaets rutilans	ASC COMPACT AND	CERCERCOCOCACEMENTAL MAINTE	CANESCONDER CANCERS OF THE DESCRIPTION OF CALCULATER STATES OF TAXABLE TO
40. BOLD: SBORD AD: Corvia macroshyschus	ALCOHOL: A CALENT	CTECHACCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCC	TO BE DESCRIPTION OF DAME DAME DE STELLE CARACTERISTIC DAME CON-
41. BOLD-ACHEDEL(Orthonomic sufficient	ARCONALS COLORS	CTTUACCENSCRAMMENTAL	CANTA: TATACCAACACCTATECENATECETCHIACACCCANANECTATATCCTAATECTA
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44. AC- ADD427021Fitts hrachyses	ARCORAGESCALCE	CTTCHACCEASCCASANOTOSCHACC	CART CREATE AND THAT IS AND THE SECONDANE AND AND AND THE PARTY OF
45. AC-7Q173904(Regithing tights	ALCON ALCON ALCON	CTTCHACCEASCHEETSERSHAREC	CANTE TRACK CALCON TA
46. SC-00920124(lanzas culturis	ALCORAGE AND A	CTTTACCEASCASSARSSESSARSCC	CHARLES FATAL AND ADD DETER CHARLES FOR AN ADDATE ADD. TO AND CO.
47. AC-00401020(latius issbellinus	AACCELAACE ALATT	CTTTACCCASCASSASSOSSANACC	CANEN, DATABOAN, AND DUTE THATE THE OCCUPATION AND FATACATO TANK COT
48. AC-02482013(Lanius esistatus	ALCO CALCEDIA A	CERCEATCOASCECEAUGASCACCA	CASTATENTACCANCHO TATE DIATE TERRICCAT CASANETATACAT CEANTCOT
49. AC-EP421594 (Lanius tephronetus	ALCO CARCECEN AT	стаска с са всреваневе на засс	CANTA TATACCANCES TATE THATE THE CATCOLDANS TATACAT CONSECUTION
10. AC-J9490754(Lanius samuhitur	ARCONAL CROCK OF	CTTTRACCORCECCREGECCRERSC	CAUTACTATACCAACACCTATECTSATECTSCSSCCACCCAGAACTITACATCCTAATTCT
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12. 30-20174804 Ocenaria: macrocorman	No. 1 and in the	CTECHACCCANCECONNETS SAGACC	
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14. SC-20176LIL (Bhigthire suren)s	ARCORAGE ACTIVITY	CTTC MACCOMMCCUMMANA COMMAN	Chiffs To Tax Chicas (Barrier Contention Contenti Contention Contention Contention Conte
15. AC-WOIGAND+HypothymLa assures	ALCORAL AND A	C CALCERDER ANALORNACE	
14. AC-02411403/Gazmalus glandertus	ARCONDARCE CREAT	CTTTRACCEAGE ACCASES ACCASES	CAN DECOMPOSED IN DAMA DESCRIPTION OF COMPLET-
<ol> <li>AC-2Q174808/Unucleas erythrophysics</li> </ol>	ALCON ALCON ALCON	CTC CRACCERCERCERCERCERCERCE	CANTA THE CALL AND
18. SC-SQ4D2111/First pitte	RECTORES TATA	. Bistoria and a second	CREASE IN THE CARE AND AND CREASE CREASE CREASE CREATE CREATE CREATE
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12. BUID:AU22540/Provises flaviourne flaviourne	INTERNAL PROCESSING AND A CARD AND A CARD AND A CARD AND A CARD
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34. 2012/ACD4004/Terpriptions paradisi paradisi	AND A DATA BOOK AND A DATA DATA DATA DATA DATA DATA DAT
35. BOLD: AACTT13: Myophonus caeculeis	ANTAL MARCOCCC DATE OF CRATCHES DATE OF CONTACT AND A CANES OF CONTACT AND A CANES OF CALCULATION OF
14. BOLD:AC22008:Rypeipeise lesonophalse	A STATUMAN BOOKETATE STETER STETERS STOTERS STOTERS AND SOTERS FOR THE SALES OF BOOKETAN BASE OF THE SALES OF TAXES TO TAKE THE SALES OF TAXES OF TAXES AND SALES
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38. BOLD: ACLEONA Endwarian Lathami	MATA COMA COCCCE TATE OF FOAT AND AN FANT AND
19. BUIDIAACI349:Passes clanasiseis rutilans	A MERIE ANALOU COURTER AT THAT THE DATE AND A THAT AND A THE TATE OF THE A THAT A
40. BOLD: S201180: Corvia excourtyvolue	AND A CARACTERED BALL STATISTICS IN DAALDA CARACTERED THE TACK TO A CARACTERED AND A CARACTER
41. DOLDARDHIELIONARTONIA Avtorius	A RECOMMENSATION DE LE RECENTION DE LE RECOMPTION DE CARDA DE CA
42. SOG2:MANNOC(Deparths pirsts	AND ADDRESS AND COMPANY AND ADDRESS ADDRES
43. BOLD (ACE2642) Copyridue fulloatus	A REAL COMMANDE CONTRACTOR DATE AND A DATE OF THE CASE OF THE TO THE TO THE TOTAL OF TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL OF
44. AC- ADMITIZIPLEA heathyirs	ANTAL CANALCE CATENETS STATES CATENETS IN A CALL AND A CATENETS OF CATENETS CALL AND A
45. AC-AQLTODIG Registrine tights	INTER AND TO CODE OF THE OPERATION OF THE DATES OF COMPANY OF THE DATE OF CODE TO THE OPERATION OF THE ADDRESS
46. AC-MEDIDID4/Lancaux sullaria	ARTRIC MARCOCK, TATE STATEST, AND CODATTACC CANTER COLUMN TACTOR TO THE COLUMN CONTACT OF THE ARTS COLUMN TAC
47. AD-00482022/lanius isabellinus	AND A CANAGE COLOR DATE: STATES AND COLARIZACES AND COLARIZACES. AND COLOR DE STATES COLDER COLARS AND COLOR AND COL
48. AC-DQ41203311Sanius opiatatus	MATACCAAR TO A TATE STATIAT CAT CAT CAATA CA AND CA TO TATE TO TATE TO TATE TO TATE TO TATE TATE
49. AC-87621990 (Lenzue tephzonotus	ANTAL AND COMPANY AND ADDRESS AND COMPANY AND COMPANY AND ADDRESS AND ADDRESS AND ADDRESS ADDRES
10. AC-29490704-Lenius escubitor	MARY CRAACEER INTERNETING AND
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13. AC-20174836 Contratue macrocertue	AND CAME TO COME STATES TABLE TO DATE AND TO AND TO TO TO THE TO THE TABLE TO THE TABLE TO A THE STATES AND THE TABLE TO THE TABLE
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14. 80-20170121/Bhighdure extenie	AND COMPLETE AND CONTACT AND A CONTACT AND A CONTACT OF CONTACT OF CONTACT AND
18. AC-RCIS4824:RypothymLa alicrea	AND AN AND AND A COMPANY AND A C
54. 35-6041140 (Germins glanderine	AND A CANACCESTIC DEDITION OF A CANEDA DATE OF THE AND A TO SECTION OF A CANEDA DATE OF THE ADDRESS OF A CANEDA DATE OF THE ADDRESS OF A CANED.
<ol> <li>AC-JQ174803 (Trotiess stythronlytchs)</li> </ol>	AND CARE COLD DEDECTOR DATE AND COLD CONTRACTOR DO TO AND DO TO AND DATE AND AND COLD CARE AND
32. AC-Operativities plan	INDER AND TO DE DATEMENTATE AND AND AN AN AN AD
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HI. BOID-ACCHI40:Parus major	The same the sector of the sector sector sector sector shall be an end of the same sector secto
12. SULDACEDIARIDADELANA FLAVLEDADELA CLAVLEDADELA	and and the set of the he contact so that the here and as the set of a set of an and an and an and the set of the
15. BOLD-ACC2038 (Brachyr) dopria pyrmige	The complete and the fore here the sector of the name there are saying the sector of the
14. BILD: AC54514 (Terpeiphone peredist paradis)	ANTINE THE CONTRACT CONTRACTOR AND
N. BOLD AACS 115 Hypphonus desculate	sense he if the table is the sense of the head barries with the sense of the sense of the sense is the sense of the
34. Bill:ACINITRypripries Inuttinghalus	ANTAL AND
FT. BOGDIAAIFTITIDicrurus imuorghierus	LIGHT TO BE TO I THE A THE CONTRACT OF AN INCOME AT ANY AND AN A AN AN AN ANALY IN THE PARTY OF
17. SCLOVACENTPE/Entering Letheni	ANT CALCUME CARE CARE CARE CARE CONTACTOR CONTACTOR CONTACTOR CARE CARE CARE CARE CARE CARE CARE CAR
19. BULDUAACLI99/Passer clanasubese rutilate	ANTINE COMPANY OF THE REPORT OF THE AND THE COMPANY OF THE AND COMPANY OF THE AND CALCULATE AND
40. BOLD: ABST140: Corvia deconstryicture	AND AN A DECEMBER OF THE DESCRIPTION OF THE DECEMBER OF THE OWNER OF THE DECEMBER OF THE DECEMBER OF THE OWNER
41. BOLD-DCWEDELIOrthotomia sutorius	ANTER CONTOUR OF TOTAL CONTOURS OF A STATE OF ANTER OF ANTER TANKS IN THE AT A STATE OF AN A STATE OF A STATE
47. BULD:AMEDIC:Desentite pirate	ANTAL PARTIES IN A COMPANY AND A COMPANY AND AND AND AND AN LY AN ANALY AND
45. BOLD:ACC2942:Opprychus fidicatus	ante el como de la composición de la c
44. AC- AB043703/Fatts brachguts	ANTAGA CONNECTION OF DARKS DARKS AND DARKS AND CALCULATED AND CALCULATED AND CALCULATED AND AND AND AND AND AND AND AND AND AN
45. AC-22170804(Aegistics tigBLe	ANTANA - TANGGANTANA PORTANA ANTANA ANTANA PORTANA ANTANA ANTA
H. &C-MERINONALIANING OFFICE	AND THE PART OF THE A TABLE TO A TABLE AND AND A TABLE AND
<ol> <li>AC-9048202011Lation Leabellinus</li> </ol>	THE RECEIPTION FOR THE PARTY OF A CONTACT TO A PARTY OF A PART
41. AC-02412013 (Lensor existence	ANTO DA COLA COLA COLO CALORA DE CALORADORE COLA COMPONIA COLA COLA CALORA DE CA
49. 20-EP621590 Classics Depicronettas	AND THE CARE OF THE REAL PROPERTY AND AND ADDRESS OF THE PARTY ADDRESS OF THE ADD
10. 30-29490706/Lanius exceditor	AND THAT THAT THE TRANSPORT OF THE REPORT OF THE REPORT OF THE DESIGNATION OF THE
<ol> <li>30-0048227810cL0Lug chlomosig</li> </ol>	ANTANA COMPANY AND
12. AC-201748341Docenitus mateoinethia	ANTAL ACCORDED AND A THE ACCORDENCE AND
<ol> <li>A0-2QL7449C1Discourus Nottessottus</li> </ol>	ANTANA COMPANYA ANTANA ANT
N. AC-7017617118htpidure eurenia	ANTAGACTERSCORE DECEMBERT DAUGHERTER OF THE ACCESSION OF AN TO ANTAGE AND ANTAGE ANT
\$5. AC-RC06492919100thypts azures	REPORT SALES AND
16. AC-SQ401043 (Gerovius glanderius	AND OR TROTACION IN A TANDA TO CAUGATE AT CALCULATE AT CAUCAL AND AND A TANKE AT CAUGA AT AND A CAUCAL AND A
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49. ht-00571501 (Suclfrage carvicatactes	The start strain considers strain feet fact and strain strain strain and strain and strain and the strain str
st. 35-35452178 Pyerhocuras pyerhocuras	TAXABLE AND
41. ac-scatzeri (Pyrchoneras granilus	to the fight and a second fit with the fight of the second star bits of a state of the fit for the fit of
87. aC-00811641(Carvus mmedula	THE ARTICLES OF A DESCRIPTION OF THE PARTY OF TAXABLE OF A 18 STATE OF TAXABLE AS A TAXABLE TO THE TAX TO THE TAX
41. AC-DOGRIEGIICoring frontience	The fart start susceptimizing the party of party from a substart of a party in start of the first of
64. SC-Olt7152L (Peterus hiarmorus	THE CATEGORY CONTRACTOR AND THE TAXET OF TAXET CONTRACTORS CONTRACTORS CONTRACTOR AND TAXET AND TAXET AND TAXET
45. 20-FJ445001(Amomates desert)	The said a part of any the tax that are partially only or any tax and the said of the said and the said of the sai
64. AC-NPHILIDE Examplants signings	TAY, DAY, ADARD STRUCTURE HAR THAT THAT AND A DATA THE REAL THAT AND ATT COMMITMENT AND ATTACK TO THE THE THE THE
47. AC-SCARING Exemptils aloverris	The calification of the first of the factor of the factor of the factor of the first of the factor o
87. AC-02491412/Calandrella enutimetrix	The same start course we shall have been compared course or the start of the same and the start we start the the the course of the start and the start we start the the course of the start
49. AC-004FIADTICulandrella rifesonte	The part strat where the warms for having of particle content for after after the mature in which the particle for the co-
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12. AC-SQ4223701Ptymoprogram cogwytals	POCCAT ATAK SERVICING THE SAME THE TAK COCCURATION SHE REPARATE ATH OR MATAKE A THE CO.
15. AC-MPREOZIS(Promotecome fullgula	The cash should ensure the same that care has not to be the second state affine a state of the same of the first of the
74. 30-87154110181rundo rustica	THE ARTICATION CONCERNMENT OF AN TAX TAXTECC TAXTAX OF STOLE AS A TAX ATTAC ANT OF ARTICLE AS A TAXE TO FOR TA TAXEN
TS. AC-DIA40005(Hirundo Amishii)	Ber und annah bisanah bisan bis bart ter harter contact of the state attact to an tax barter the state of the force
74. 30-024115331Cecomple deurists	Bertantinten beinen bei benne beis teette en fantin brete in fan afne hit erer anderen en andere an afne it fan bit ferere
TT. AC-9Q481495 (Delighton unkinum	Recard a had subsect shale has had to be the had to be be been a had at sect a had a had a had a had been been
TE. 30-5000110100Lithum daryging	TATCART ATAATTOO CONTENTS OF AN CONTENT OF TATATTOO CONTENTS AND ATTOCCT ON ADATA AND ATTACT AT A CONTENT OF TAT
Th. AC-70174LIS (Ricpl.dure bypresstile	THE CARTANANDORSHIP COMMONDER COMMONDER COMMONDER COMPANY COMPANY COMPANY AND
85. AC-20174101 (Cultoringe orylements)	TATURA TERTA TO BERNALT TO BARA TO A TO BE TATUE TARYA TO BE TO COMPANY AND
81. MC-20221707(Ceptalogynus flemmineps	Record a part official provide the part of the state of the part o
82. AC-2051070512aciparts star	Recta Trayout Sussesser Blank For Farther Franza Construction a Table Treese Barbant and Alas Treese
es. AC-RODIEL94 (Perce relidioentrie	Rectared and considered considering to the particular and considered which the considered and the state of the second
84. 82-08135314(Lephophenes dichrous	FRECHE ATAA STRATT STAAL TA TAT TAT TOTT TATAA STATTER ATAA TAT TAT TOTT ATAA TAT ATAA TAT ATAA TAT TAT
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th. AC-201417211Farms monthemilas	
#7, AC-005720791Repls pensiling	BECHAR CARANCER FRANCE BERNE MER TAR TO COCCUMATA COMPOSIC COCCUMATA SOCOOD
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41. 35-55482611 (Poyshonizasi granulus	
17. 30-004736471Convis senadula	IN THE CAR AND THE REPORT OF THE DESIGN OF T
<ol> <li>ac-ocellecticorius frontlems</li> </ol>	The state of the
4. SC-00511521 (Tanunus Blasmorus	THE REAL PROPERTY AND AND THE REAL PROPERTY AND AND THE REAL PROPERTY AND THE REAL PROPE
0. 30-F7465101/hmomentes deserti	The state of the
A. aC-MPHILIDE Enumphania signicana	TO THE TAXABLE TO TAXABLE TO TAXABLE TO TAXABLE AT ANY TAXABLE TAXABLE TAXABLE TAXABLE TO TAXABLE
1. AC-HGANIHA Exemptizia algeetria	The state of a state of the sta
8. AC-02491411/Calasdoslla annunstrus	THE AT CAR ANALYZANS AN COMPLETE A TANKATANY MANY TATAN TANAT IN A 1 TO THE PARTY AND THE ANALYZAN
8. AC-SQUITADDICalandrella ruferonts	the second statement of the second
1. AC-CONTRELEMENTIA riparia	AT AT TAX AND TAXABLE AND TAXABLE TO TAXABLE INCOMENTARY IN AN ADDRESS OF A DECK OF A DEALERST OF TAXABLE TO
1. AC-OQ412404 Rimeria diluta	a fair that and the second concernences and the second the second s
2. AC-SQ422110/Phymosprogram migwaters	TRAFT IN ANY THE TAX THE TAXET IN TAXANT IN CANTUR IN CONTRACT A DOL NO. THE THEORY AND THE MENT
1. AC-WPEROZZETPCONNepropre fullgule	That is an in the concentration of the second of control of the second is second at the second of the second
4. AC-07154110;Rirando Fuetica	In the real statistics of the second real statistics in the second real statistics in the second
5. 20-00440335 (Rirundo saithii	to that to day make the control with the first of the first of the start of the sta
4. AC-004115331Cecrypte deursce	I TRATE ON A DAMAGE CONCERNENT OF THE DAMAGE TA AND TA AN OTHER OF A DAMAGE THE DAMAGE THE DAMAGE THE DESCRIPTION OF THE
T. AC-90481499:Delighton unbinum	In the state of the state of the control of the state of
t. 30-30411831 Delithon devypus	In the second
<ol> <li>AC-70174L88 (Bigidure hyposanths)</li> </ol>	te find eine anna faithe no eine fich for faithant in eine antern an eine eine eine eine eine eine eine
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104. 30-00482481(Phyllosolpus tarchiloides	- ECTATACC DUATETERS CONTACTOR AND A TANK AND A DOCTATION OF A DOCTATIO
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104, AC-80408145(Phyllosonpus regulations	ECELER CONSCRETE A	A SCCARCESSING	CONTRACTORNAL CONTRACTOR	LOCAL STATES	ATOTASSOST	C0000282800	TTTOTAATAAT:	22-312A3888
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97. AC-JF480097(Fyoninotus cafer	AND CARE TARGET TO THE TOTOL TARGET AND THE TOTOL AND CONTACT AND
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101. AC-80160480/Phyllonorgus gripeolus	AND OR COMPANY AND DECEMBER AND
103. AC-HINTOTRY/Htylinscopus collybuta	ARTNARCE BRACK ATTTTTTE BERGERT DAR CHARTER DE CENTRE DAR DE CARTA DE ANTRA CHARTAN ATNANCE ACCHECACE DATON D
104. AC-00482441/Bhyllos)opus teodileides	INTERESTICATE DE CONTRACTOR DE CONTRACTOR DE LA CONTRACTOR
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108. AC-82450177 Iduna came	ANDA MARCE DE COMERCIA E DE CERCIA DE CARCENER ANDE ANDE ANDE CANADA ANDE ANDE ANDE ANDE ANDE ANDE ANDE
108. AC-ADA55187(Rippulsis lampuids	ENERGIA TEAN CARE TE ECCENCIA CENTRA CENTRE EN ENTENCIÓN CANECARE ANOTES CAREANCA CANERTANA CENTE ECCENTE CON
110. AC-OQUELINTIAccoordialus melanopogin	AND DECEMBER AND DECEMB
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112. AC-W24551327Acroceptalus concinents	AND THE OWNER AND THE AND THE ARE THE ADDRESS TO AND AND THE AND AND THE AND THE ARE THE ADDRESS AND THE ADDRE
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111. AC-PRE47226 Accomplatus soundataonus	THE CARCE ACCOUNTS FOR STATE ACCOUNTS AND A COMPANY TO A TABLE AND A COMPANY
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81. AC-824475411Zitta casheiretele	THE TO BE CONTRACT OF THE OWNER OF THE AND THE AND THE AND THE AND THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER
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96. AC-SQ481989(Cinclus pellasti	CAREAR CONTRACTOR CONTRACTOR CONTRACTOR AND A CAREAR AND A CAREAR AND A CAREAR AND A CONTRACTOR AND A CAREAR AND A
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102. AC-00140480/Btyllosoopus griseplus	tin ter Ber Brette Dar baren ber Berte beine ber eine ber bar beiter ber berten ber
103. AC-809707980 Phyliostopus collybuta	the for the first the first of the second second second from the second s
104. AC-OQ402441/Phyllowropus trochiloides	ten ber ber besten beiten beiter ber ber besten ber besten ber beiter beiter ber besten ber besten ber beiter
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104. AC-#Q400046/Buylinecopus regulations	ten bei Ber Ber beite beite beite einen beine einen beine beite b
107. AC-OQ401975/Idame caligets	CO. T. THE OF TO THE REAL AND
108. AC-80453177128una pasa	CONTENTION OF A CONTENT
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82. AC-6Q4827771Chodone mutaria	The start of the Distance of Distance of the Distance of the Distance of Distance of the Start Start of the Start of the Distance of the Dista	redd
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102. AC-HEID40400: Bryllowcogus gripenius	INCOME A DAR COMPARED DAAM DOA DONTY OF DATAATING COCCAME ADDID COCCAME COCCAME TO ATTACTAL ATAA DOT DOW TANKS	ic dd
101. AC-RENTWINN Brylinscopus collyboxa	December 1997 Contractive Contra	cos
104. AC-024924411Phylloscopus trochiloides	TO COME AND A DEAL OF A DEAL AND A DEAL TARE COLD CANADA TO BE A DOC COLORADA DADOR TO COLORADO AND A DEAL AND A DEAL OF THE COLORADA DADOR TO COLORADO AND A DEAL	cdd
101. AC-80001011/Boyllowcopus explications	ENCOUNTER THE CONSIST THE SAME TO A TABLE COOL DATAAT SUBSCOOL THAT COULD COOL AT COOL SATURATION TAA SATURATE THE THAT THE THE THE THE THE THE THE THE THE TH	100
104. AC-Spi00045: Buylloscopus regulations	INCOMENTATE CONFIDENTIAL FOR TARGET CONFIDENCE IN TARGET CONFIDENCE OF A TARGET CONFIDENCE IN TARGET AND A TAR	£ 31
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115. AC-00481147(Annoephalus selanopopus	TAC CARE CATEGORIE DERIGANTE DERIGATE DERICATE DANTA COMPARIA DE DERICATE DE LA TRACCATE DE LA T	tech.
111. AC-GUTT1212:Annucephalus apricula	EXCERT A TAR CONSISTENT DEALER FOR THE FORE THE FORE THE TAR CONSISTENCE TO THE CONSISTENCE THE TAR CARE AND A TAR CONSISTENCE TO THE TAR CONSISTENCE TO T	100
112. AC-824581821Acoroeptalus concinens	ECCENTENTE SERVICE REALS DECEMBER OF AND A CONTRACT AND CONTRACT	ic dd
111. AC-AD191947(Acrosphalos Aussignment	In the state of the state of the same part south to a the state of the same state of the second state as a state of the same state of the	cd.
114. AC-00401203(Acocceptation scirpscends	TO CHARTER THE COMPLEX TO DESCRIPTION OF A	kd.
118. AC-PH1472261Aconceptalus anutdinaceius	DECEMBER ATAM COMMUNICATION COMMANDAL SUBTICICULAR AND CAMPACITAL ACCORDANCE AND CONCERNING AND COMPANY AND COMP	ted.
114. AC-82459187(Acroceptalus stectoreus	TACCEAR CARANA CHARACTER COMMANDER A MARACCE DA MAARDINA COCCANA CARACCE VA CARACANA C	ice.
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117. AC-37907023(Megalurus palistris		TTOROSOCATOROCCOLLATARTECOLLATARTECOLLACE ACTAS
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118. AC-80400004 Prinis cristpers	STATES CALLED CA	INTECCEMENT OF CONTRACTORS AND ADDRESS OF CROSSES
120. AC-80722499/Frinis gratilia		A TAT - TAN TO TTO COTO CATEROCADO MA TANTO SOCACOT CACTANES
121. AC-ROCOMBERTINIA CLAVINGENTIA	COLUMNIAN CONCLASSION AND CONCLASSION	A DA CO DAAT CETCOOCO CA DOMOCADORA DAD DA CORRECCE CA CENADO
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120. AC-JQCT40221 Bylvia nena	]	
124. AC-OUTTI23(Byleis sistifis		······································
125. AC-00971644(0y271A cosemicostals		ATACCTANTERCOCOCATIONCO SANTDITADOTACCOCCCTANS
120. AC-72570331/Sylvia systems		A TATCTAATCTTCDDCDCATERUCCHEAATANTHERTACCOCCCTAAHC
127. AC-00912120(By191a communis		
124. AC-dg171953:Fonatorhinus erythropenys		STACCTARTCTTDSCCCATARACCESSATASTTSSTACCOCCCTARS:
129. AC-H9149001:Esticille Burneril		ATACTIAN COLONY CATERACCE SAATAST SECTOR COCCULATE
131. AC-IGLISTICI Pallonnein suflinge		A TACCTANTETTE DECOCATONS CODONA TARTOSOCAC TO SEC TAND
LNL, AC-JULTENT(Alsippe pointoephale	]	REACCEMENTED CONTRACTORS AND AND ADDRESS OF CARE
131. AC-00101117(Argys earlat earlat		
138. AC-80439341/TurdoLder malorist		***************************************
134. 85-89265515:Trochaleptaros arythroephalus woo		TARGE TRANSPORTATION CONCERNMENT
138. AC-ED447547/Beterophasia (apistrate hipriceps		
134. AC-SQ412236 Humiloops sibirios		TTACCTURE CTECHCOLOGICATION CONTRACTORS IN CONCEPTANCE
107. AC-JF499940 Leisthris lutes		ATACTERATORS OF CONTRACTORS AND TARGED AND TAR
158. AC-02483210/Muscloops desurios		CTACCTANECETED SCHOAT SKUCCH SKATUSEASSCACCOCCCERASC
138. AC-009719071Huscicage striate		
140. AC-HESSOIRI/Concentrations galactotes		CTACCTERSCETCESCECES BASCESCERSESCECESCECESCECESCECESCECESCECE
141. AC-JE496045 Coprychus malabarious		IN THE CONTRACT OF COMPANY OF THE TAX TO FOR THE DOCUMENTS
141. AC-2019621)Cronix milenicides		ATACCTERTCTTCECTECATERECCEERATECTROSTRCCBCCCTRADT
148. AC-22175588:Hilliseve models		TTACCTARTITC OF TOTAL SAFET STARTAN TO SECTOR CACCORDANS
144. AC-EF422241/Husticage thalassine	CHATCHTER TO ATTATE TO AN CANTCH CANADATATIC SOTACES	CTACCTANTCETERRORMENTONICCOURATANTERREPTCCTANE:
148. AC-32576295/Lincinia regaritytohon		CTACCTARE COCCURATE STATES COCCUTATES
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504 107 E @ with (Carls	0401	Selected genetic code Vertebrate Mitsche

2pectes/380rv		
14. AC-R060526812egithalos concinnie	LES T ALL A CALL THE OTHER COLD TO AN ADDRESS OF A DECK TO ADDRESS OF ADDRESS OF A DECK TO ADDRESS OF ADDRESS OF A DECK TO ADDRESS OF ADD	
10. SC-ROGETLETIZITES Contributed	NACE NAME & TAXABLE PARTY AND A DESCRIPTION OF A DESCRIPT	
<ol> <li>AC-874471871Sinta teptronota</li> </ol>	HE CARE & C. STR. C. LEWIS CO. C.	
#1. AC-ADMITIGN Title Proceeding	MACCENNESS CONTRACTOR DE LA CONTRACTOR D	
82. AC-504827771/Chodrone miteris	MACCORDENCE CONTRACTOR STORES CONTRACTOR AND	DISCHARGE BI-
#3. AC-##25252#/Centhis holgems	AND DE AN ACTACIÓN DE TENANCIÓN AND DE MANAGE CANTACTAR A C	
84. AC-80772837 Chuglodytes tooglodytes		
85. AC-00513538 Cinclus cinclus	KALCENARTALIATE STERRECTERCENCENSANA CONNECTION STERRE ALTON STERRE	
we. AC-SQUEETERFICIENTIAN gallants	ARC TANKER OF CAME STAND OF BELANDING TO BE COMPACE TO THE CARCENE THE TANKER OF THE COMPANY OF COMPANY	TANK TALL !!
NT. &C-29400287(Pychanotus cafer	AND THAN ANTAC THE PERMANENT OF AN AND AND AND AN AN AND AND AND AND AN	TATAS CANE: 2
90. AC-80329958 (Pychanotics Jonneus	NACE TAKENED TO BE TO AND THE RECEIPTION OF A DESCRIPTION OF A DESCRIPANTA DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A	
10. AC-OptIIII/Repulse regular	AND TANK A TAX OF THE REAL AND A STATEMENT AND TAX OF A	EALARS TAX
100. AC-OQUELEAT/Contain contai	KACCENACA: SACCES STRACCE SCREAMERS AND AND A COMPACT AND A CARE AND COMPACT AND A CARE AND COMPACT AND A CARE	TACATECIAN CO.
101, AC-00572101; PhpLlinergue humes	AND COMMENCES IN THE COMPANY AND	
102. AC-HOIMENERS Brylinscopus grisecius	HACK BACK THE REPAIR OF THE RECENT OF THE REPORT OF THE RE	
101. AC-809101980 Reglinecogne collybote	HACE THAT IS THE TOTAL CONTRACTOR OF THE TAXABLE CONTRACTOR OF THE TAXABLE CONTRACTOR OF THE TAXABLE CONTRACTOR OF THE TAXABLE CONTRACTOR OF TAXABLE CONTR	
104. MC-0Q402441/Phyllosotgus troohiloides	MACCONACTOR DE CONTRACTOR DE LA COMPANIA	TATAL CLARKES
101. AC-02000047/2hylloscopus meguirosists	NATE TRANSFORMED TO THE DECEMBER AND COMPANY COMPANY COMPANY AND COMPA	
104. AC-82400048:Phyllosoopus repulsides	ANT COMMENCE CONCEPTION OF CONCEPTION AND COMMENTAL COMMENT	
107. AC-SQ401375) Idama caligata	ARE TO REACT OF THE TYPE TO BE AND THE REACTION OF A COMPACE TO THE TRACK TO THE TRACK OF THE T	DDI INCI-
108. AC-824681771Iduna pasa	AAST SCARTACTEC TO STORE SCORE CARRANGE COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY COMPANY	
109. AC-W/453187/Rippoleis languide	AND DE VALLE ALCENCE DE MARCOLO DE ANNA DA MARCANA DE MARCOLA DE LA COMPANIA DE MARCOLO DE LA COMPANIA DE LA CO	
115. AC-00401347(Annoephalus welannpogum	LACK CALLER AND THE PERSON OF THE REPORT OF A DESCRIPTION O CONTRUCTOR OF A DESCRIPTION OF	ITACATCO DIALCON-
111. AC-GINTIZIZ/Annosphalus apricula	ARCE TRACK TO BE TRACKED BE ARCE TO THE RECEIPTION OF COLOR TO THE REAL POINT OF T	
112. AC-82454182(Acorosphelus concloses	HACCEERANCE TO BE CONTROL OF THE CONTROL OF A CONTROL A CONTROL OF A	
111. AC-AMPRIMITATION PARTICIPATION CONTRACTOR	HACK THAT WE REALL THE DESIGN OF A DAMAGE AND A COMPACT OF A COMPACT AND A DAMAGE AND A	11-12
114. AC-HQ4012834Aconceptalus scirpscess	ALCON DE LA CACENCIA DE LA CONTRA DE	DALES THE PARTY I
118. AC-PRH47220:Acrocephalus aruntinaceus	tite to a fait the second s	
114. BC-87469147/Accucephalus stentozeus	ALCON TO ALCON TO THE PROPERTY OF A CONTRACTOR	*********
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8. ac-Reddolle idegrahalos concinus	LA DA DOBRA CARACERCE DE LE CORE DOR E DA DECEMBRE DE LA DECEMBRE DE LA DECEMBRE DE LA DECEMBRE DE	I TO THE TAXABLE INTO TO TAXABLE IT
D. AC-60487143(Sista cashelinensia	ANTACCAMACCOCCUTATECHTATEAPCANTACTANTCHCCOCKOTCCTACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	CERCANDERTRACEAUSCECCECATABACCOC
id. ad-KJ&47157(Bitta teptennita	HATAT HAACCCCCCTATECHINESECCOTACTERECECTIC BECKERACTIC COCCTACTIC COCCTA	CORCEANED A BOARD CARE AND CARE AND CARE
IL AC-KINNTLASIZIUNA FIRMUALIA	ANTAL CARACCCCCCTATEONTAL ARCENTACIAN CONCERNING THE RECENT OF CONCERNING THE CONCERNING OF THE CONCERNING	CERCANNAN CATAGORICANS
42. 20-00482777)Chodcoms mutaria	INTROCENSE FOCOUTATECHTCHTCHTCHTCHTCHTCHTCHTCHCHCHCHCHCCHCCH	CODORANS AND A CALESCENCE AND AND THE COOL
15. AC-M2222424 (Carthia hodgaon)	ANTAC CAMPECCE CONTRACTOR CONTRACTOR AND ACCOUNT FOR THE TREAT CONTRACT AND A THE FORMER OF THE PROPERTY OF TH	COLORIDATION CARDONNELLAND
N. AC-KPTT2EST (TrogLodytes trogLodytes	NATE CANACECCCCTATE COLORED AND CONTRACTOR COLORED COLOR	COROLING A MARCANES CONTAINED IN
H. AC-UNTIDICIDELA cimilar	AUTAT CAMACCCCATTATTETETETETETETATCATTA TAATCATCUCATTETETETETETETETETETETETETETETETETETET	CONTRACTOR ANTACTACTACCALCUT
H. AC-00493559 Clucker pellegil	ANTROCANA CROCCE DE TETRETATURE CROCE CARECACCIÓNE E CENTRO DA CROCACERE E CONTROLES DE CONTROLES DE	CROCESSIAN CACAMERICAN SCROOL COL
FT. AC-2F490097/Pychinobia cafer	ANTACCAMACCCCCCTATE ONTATIAN CONTRACTOR AND CONTRACTOR AND CONTRACTOR AND CONTRACTOR	CARCELSCATER CARACTACE CACCURCERS
4. ac-KES29958 (Pychicketup )cookein	ANTACCARACCOCCUTATETOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTAL TALENAL CALENDAR DECEMPTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTO	CARCENESS STATEMENT AND A COMPANY
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100. 20-40401547) Cettis petti	ANTAR CAMPORTER FOR COMPARISHING THE COMPANY CANCELES FAR BE THE FOR THE FOR THE COMPANY OF A	ten ter at a tate ta the carele
OL. AC-STRT2011/DigLinetryne hotel	ANTAL CAMPCOUNT APPORTUNATION TO THE TRANSPORTATION OF THE PROPERTY OF THE TRANSPORTATION OF THE TAXABLE PROPERTY OF TAXABLE PROPE	ICCOCCULAR TACCATECTACTCACTUACCED
102. AC-89060480 Byllesogue grisecius	Auftagen and erere for the state of the case of the	CONCERNATION CARDON CARCELANCE
103. AC-MINTOTRE/Regilmentpus collybuta	ANTAL CAMP DESCRIPTION CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	CORPORANT CACTAGE TACEARCORE
104. AC-00402441(Bhytlosopus toodtilnides	ANTRE CANNED COORDINATION TO ANTRE CONTRELATION CONTRELATION THE THE TREE TO CANTER THE	CODOCUMATES CATEGORIES COM CON
105. AC-DQUODATIDigLiosogna Asphirostria	aufar ennererer fall eine safer une fauf eine far birke for bir bir far fall ar bir fall ar bir eine fall	CORCERNATION CAREFORD CONTRACTOR
104. AC-HQ6080481 MtgLloworgus yepulations	NATAT CARACTERED TATE OF THE CONTROL AND AN DECEMBER OF THE DECEMBER OF THE CONTROL OF THE CONTROL OF THE	concount active the two concents
of, AC-SQ481975 hims caligate	MATACCAMACCOCCUPATION DIALOCAT COMATCA DECATATIANTA CANTERATICATE COMACCANTACE	Chicago and a same the fiscal action
08. AC-80450177:1dune ceme	ANTACCANACCOCCCUTETORS THAT IS A TO BATCAL THE SETATE AS TACTAL TARGET AND A TO TAKE AND A TO	CREEK CALLARD THE STREET CALCULATED
108. AC-824551187(Siggulate languida	ANTACCAMACCOCCUTATION CONTRACTOR CONTRACTOR ANTACOM STATES CONTRACTOR SCIENCES	CONTRACTOR AND A DATA OF A CONTRACTOR
16. 20-00001247 According to a selence of the	an the canal occur for the set of the cane of this take the containing the providence of the set of	eren bestat räckatise tar tärena rene
11. AC-02971212 Accomptains apricals	ANTACCAMPTER TO THE TAX CAN CHARTER COMPANY AND A COMPANY AN	CORPORATION AND ADDRESS OF A DESCRIPTION
117. AC-874541187 According tomothers	ANTECOMECCO DE LETTORE DEL CARTO DE LA TRACECCIÓN DE TATAS DE LA TRACECCIÓN DE CARTA DE	the second is sufficient to the second
11. AC-ABINIDIG According to a distance in	ANTACCASA COORDENSE TO THE TART CASE OF TAXETS CHICKOPACE OF COMPACE STATES.	COCCUSCION CARGAGE ACTING CARGE ACCUS
114. AC-004012010 Acceleration activations	HATE CARECOLLE TREES TO THE TARE AND AND A COMPANY AS THE TO THE TARE THE TARE TO THE TARE TO THE TARE THE	
111. AC-FRE47226(Acrocephalus soundinaceus	AUXACCESS TATE OF CAREAU CONTRACTOR AUXACTICAL TACTOR STOCKED	CORDERATOR CHEMICAL DATE AND CONTENTS
14. AC-824531171&conceptalus stettineos	ANTECCAMPCECCONTROLOGY DATE CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	to any any and in f a find of
AND PRODUCT AND A PROPERTY AND A DOUBLINE		THE REAL PROPERTY OF A DESCRIPTION OF A

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117. AC-JP967503:Menalizes galuetris	COLDCORD COLDCORD	CTABLE DC DC DC ACANTONNAS	LUNSSELOS & BURNELS TOTATS	ert er tit an i analas e tance and tanan en i
Lis, aC-GUSTIBSSilementalia marvia	COLUMN TO BE	CRANCE COLORS CONTRACTOR	ADDAD TACOTA BACKTORA TOTATA	CENCLE PROTECTARIAN CONSIGNATION CANADASCON
118. AC-80008844 Printe ortalates		CAN BE AT CALMMENTS	THE REPORT OF A DESCRIPTION OF A DESCRIP	CONTRACTOR DE LA CONTRACTOR DE CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR D
120. AC-80732418(Frinis gretilis	rectain contact	CARLES CARCESCHERTCHART	ADDRESS OF TAXABLE AND CREATE ADDRESS OF	concentration state ta secta care state er
121. AC-HOMORORD/Frinis flaviowentils	tertanter ferter	TANGE AND A CALLER AND	ABSED AND CALENDERINA CALENDAR	CECCLC AND THE RAN TRADEC ACCOUNTS OF
122. AC-05240162/Drinis Livernate	tert att ter ter tit	TANCE TATC & ANTRIANS	SEEAS-ARD & ARRATINA - DETATAL	COOLECTRO TANGE TANAL CONSCIENCE CONTRACTORS
121. AC-20176122(Bylvis name	cold and cold first	CANCESCH AND ADDRESS	CONCRETENCES OF THE PARTY OF TH	coccac tasces character cocace measured
124, RC-GUST21231 Sylvia missoria	LAT ALL CONCERNENCE	CTABLE COLOR CAACTOTABAASC	CONSTRUCTOR AND ADDRESS OF CONCERNMENT	enten antikan an enter andere atter antikare at
125. AC-00571644(Bylvis speetrostris	CONTRACTOR OF CONTRACT	CTRECCTCC CLACKSTRAKES	COMPANYAROTACARDATIKACCOT TAC	CARCACTAGEARSCAACCTAGECCACGETBRARCONS
128. AC-JQLTHIZLISylvia systame	TEATCATTCT COTCT	ICTASCOTOCTCOA/ASTASASS	THE REAL PROPERTY AND THE TAX	CARCATASCONTAN TRASCORTOCCONSCRET
127. AC-00972120 Fg2via doments	CORPORATE DA DO D	CARCES CONCREMENTS	CONTRACTACIONAL CONCERSION	COCCUPER CONTRACTOR SCORES CONTRACTOR
121. AC-221753111Domatorhisus arythrogenus	TOTAL AND COMPANY	CTABLE CONCERNING AND	CONSCIOUSANCESSTTMACCUTSTAC	COCCUPATION STATES AND CONTRACTOR AND CONTRACTORS
129. AC-00049001(Leticilla Durnesil	terfertieter etter	CTORCETCO CENCOLEMAN O	RESERVICES CONTRACTORIES	teccentranecourtaace tantecace cornensee bet
130. AC-201707070933 convention and stops	tettette tettettettettettettettettettett	CTANCED CATCERSCROTAGAAS:	RESERVANCES CONTACTOR	CCCCCBCCASCONSTANCE AS CCCATGCCHEASCONG
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132. AC-HEIOSSETLArgys eatist earlet	tentente tertet	CTANCETCE CONCRATANANS	KERNSCHERNSCHERTERSCHERTARE	cenceralecanematers acessations and cent
133. AC-BC434541(TurdoLifer maldelst	tenter til etter bis bis	CTANCET CONCRATT/AND	APPORTABLE APPORTUNACED ATAB	COCCUCTOR AND CONTRACTOR OF A DOCADORA OF
134. AC-REDEBLIC Trochaloptarox arythromytalian wo	ALCARCENCE CONTRACTOR	LTEANCES CONCACAUTAVAANS	REESCATERA PROCEDUAC CONATAC	COOLER AND INTRACCONCORTERATION
138. AC-ED4470470 Reterophasia cepistrata nigriceps	cap medicite i ch	CTRECT CERCECECESTANAL	APPROCAMERAS DESCRIPTION OF A DESCRIPTIO	celle chartalle en chile e tabe celle pella side e de
138. RC-00452226/Huscings sibiring	CONTRACTOR OF ACTION	CTABLE CATCERCENT COARSE	ABBANT COMACASOTTUAACCOTATACC	CONTRACTOR DE LA CONTRACTA DE L
137. AC-JF199548(Geinthris Jones	CONTROL OF COMPACE	CARCECCCCCCCCAREADAAAA	ABBBBCADSAL TRATTIKAC BETCEAC	CONCERSION AND CARCELER AND CONCERSION
138. AC-SQ452236/Husciceps desuring	trater Merthetten	CTANCE COLCARATERASE	ALSONTAUGAACANG TEAACCUTURE	CONCERNING CONTRACTORS CONTRACTORS
188. AC-GUNTIS97(Musclospe stalate	COLORADO DE L	IC COCTOCIO CONCASE CONNEC	ADDODIADIAACDODCTRAACCOTOTAC	
141. AC-OUTDITED Committee galantees	CONTRACTOR CONTRACTOR	TTASCE CC CRACKSEKSARS	ADDDUTTODAA-ADOTTOAA-TATATAC	COCCUPERTED CONTAINS CONTRACTOR COCATEGORIES
[41. AC-JF496645: Opprychie salabari.nur	CONTRACTOR OF THE PARTY	CARCELCO CONTRACTARE	RESECTATION ACCOUNTS CONTACTOR	COCCUPETER THE TAR COCATE CHERICITE
142. BC-221746271CptthLe millenkinides	terber Herthelte	CTANCE CCCCCCCACANTANAAAA	RECEIPTACEAS: CONCERSA: DUPATACE	CONCERCIÓN DE LA ANCO DE OCCADO CONSECCIÓN
143. AC-32178889/HLIseve mundars		CEANCAE CE COACANEENAARC	RESTOTATIONAL COOCTUAN CONTRACTOR	
144. SC-CF422241(Hustings theissine	CONTROL OF C	(CINICIPACITOR CONCRETENNES)	ACCESCROUPS: 210 TUAN: DUTATAN	COCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
141. AC-J2175280-Lascinia megantybilics	CONTRACTOR CONTRACTOR	CISIC III CICCRCARING AND C	ATTAC STORE ATTAC DESCRIPTION	CORECCE CONCREMENTAL CONTRACTOR DE LA MARCENTA
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117. AC-IPHT1020/Megalarus palistris	THE ALL ATTACTORS ATT BALLS. THE TATE OF DATE OF CAMP COLOR ATTACK IN ALL ALLASSIA TAX STRUCT IN TO CO
118. AC-GUITINSSILongetelle nervie	TA THE REAL CORRECT CORRECTLY AND AND TATES OF
118. AC-80406604/Frinis crisipers	in an and some in it is him infranchistic in the life is annually first in the
120. AC-00722459(Promis grantlike	TA CAN TA TAR ON TAXAN AND TAR TAR TAR TAR TAR TAR TAR TAR TO BE CONTACT AND A TAXAN ANTAL ANT
121. AC-ROMONDARIDALE CLEVIDENTIE	The said after concentration as the fact or intratactions for the state officer states as about 10 for the fit of
122. AC-M7240252(Frinis Linguage	In succession of the second
128. AC-J25749221 Bylvis nata	The case of a range of the second s
134. AC-GUITILID Byllyis sustitis	The case of tax a case of the fact of the fact of the fact of the state of the state of the fact of the state of the fact of t
128. AC-00071644/Dylyia coaseisostais	The said start consent the same for the factor that the beautic of a start with the same said that the factor is the same said the sa
126. AC-20176021/Sylvia mystates	The party of a second
127. AC-008721201By2via communis	The same state of a supervised search the factor far build search of a supervised search the same state of the factor of the supervised search the same state of the supervised search the same state of the supervised search the same state of the
126. AC-30175951/Posatorhinus erythropenys	The rank start county of submatrices of our the factor county of the start start and samples and the start of the
128. AC-HHIGHORIVLarinille Burneril	the and all all and the state of the state o
131. AC-JQUTTTTTTPallernein sufamps	The same a function of the summer function of the party on the state of the state of the same as a state of the function of the same state
191. AC-JECTRENT(Alstype pointcephale	The automation concepts course for factors for the factors course after any concepts the attack of the factor of t
132. AC-HEIGHNATIArgys saries earles	THE CANETALATER CONSTRAINTS DEBAN, THE TRAFF OCCUPATION OF COMPANY AND
188. AC-HC439341(TurdoLifes salioplat	The case around the seast state fair fair of the fair of the fair of the state of the state of the fair of the fai
134. 85-002635110/Trichal-pieros erythroughalus wood	the sufficient containing classes for first effective of the state of
138. AC-ED447047(Beteruphania capistrate nipriceps	The said after the second county for the fact occurrence for a fact for a fact by a constant in the same fifther the fact
136. AC-SQ402226(Hustiteps sibilities	TA - ANT ATANT SUFFICIENTS CARA THE TANTS TANTANT SURF
107. AC-JF4960401Leuchris Jutes	The constant of the second
158. AC-00483210:Muscicege desurice	TA CARE ATAK COMMANDED AND TAKE TARE TARE TO CONTACT AND THE TAKE ATAC ATA CARE ATAC AT TAKE AT TAKE TO CONTACT AT TAKE TO CONTACT AT TAKE TAKE TAKE TAKE TAKE TAKE TAKE
139. AC-005719071Muscloage striate	The same start, seased previous for the part coll factor when could a the second start as a start of the same to be be be a second start of the same to be be be a second start of the same to be be a second start of the same to be be a second start of the same to be be a second start of the same to be be a second start of the same to be be a second start of the same to be be a second start of the same to be be a second start of the same to be a second start o
140. AC-07100131 Concentration galemotes	The constructed surplicing stand for factors in factors can be constructed and construction around the factor of the factors and the construction of the factor of the fac
141. AC-JEANSHADICUPSychus malabarinus	The out are presented interest for the party of the party of the party of the state
141. AC-JQCT4627) Cynthia milenulnidea	TA CHATTATAT COCCUPTE DIAM. THE TATE COL TATAT CORP. CO. ANTATAC ATT COL MATAN. AN ATAM TA ATAM TE CO.
143. AC-JUCTESER(Willsave mundare	to all stated over ours for home stated out the two all states at states if the is it -
148, AC-EF412241 Musricape thalassine	THE CASE ATANT OF COURT DELAN THE PARTY OF ATANTA COMP COURT ATAN FRANCES IN THE CASE AND AND AND AND THE THE TO CARE
148. AC-32175295/Luscinia negathytothes	The contract concerns where he food a factor over 1 are the bit
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117. AC-3799710213mpalurus palustata	COTAN COUL	-1111	TABOCCA	con Lice	CTCCTAN	THE CHE	COLLET	TATAL OF	117-01	ace seco	ALC: L	COTALTAL	12 - 12 - 1	T.ATONY
118. AC-00571985/Semuenalia maevia	tte the to the	TAXA.	TAXES OF	CCC	-		CANATO	1111-11		111100	ALC: IT:	T-STATA		TIATANT
139. AC-90408864/Prisis cristors	COLLARCCOM	ICCI MAC	110101	acche se si o co	10.11	1111-111	COLUMN TO	<b>ENCLASOR</b>	11:51	in the cost	LTO TO	C STRATE	10-10-1	TTATA T
120; AC-20120439(Frinia granilia	ACTONNESS OF	CALLAR.	11111(1(1))	COLUMN TO CO			COLLEGE	TATAATUT	MICOR	No cocilio	ACC: CO	IC STATA	it centra	TTATAST
121. AC-HQMORER/Frinis fisviventris	CONTACT OF	CARAC	A DEACH	ACCR. BRANCO	c co tak	<b>GARACER</b>	COLDANC	tatutet.	LAT: IT	accecie	1.0.22	I COTAL TAL	8-8-i	TTATANT
122. AC-07340052(Drinis invents	ACCENTS : SAU	CALLAR.	TALES CA	ACCALLER NO.	1. 11	CO CA CON	CALLE	TAXAL ST	AT-ST	ACCUCAC	1.1.11	C STAATA	1.0.1	TTATAST
121. AC-20110322/Bylyis name	CONTRACCOR	CALLE.	TABOCCA:	construct	C C C C S S	1111 111	CALLEC	tucià cett	LLICOT	and free	LINCIT	COTATAL	it ettet	TTATA N
124, AC-GUST21231 Sylvie misuris	CONTRACTOR!		TABLE CA	ACCTAINSCO	CERCIAN	ASATUA	CALASC	ACAACOT	ALC IN	ACA SCC	ATQUET:	TOTAL ADA		TTATASY
125. AC-005716441 Bylvia usedeisustais	CONTACCO.	1.111	A DECK	COTOTO CO	CALCULAR	1111111	CALARC	A ALTON	EASC OF	ACT OF	ATOCIT	CREWATAL	1.11.1	TO ATANY
128. AC-JQ17652115ylvis systems	ECTATORS,	CC 184	TAXABLE IN	corsus co	CTCC188	IN CASES	COLUMN T	TARAS ST		accases	Arsers:	CSTAATAI	Rentel I	TTATAST
127. AC-00912130/Bylyis onemals	CONTATIONAL	12 4 12	AB6CCA	accesses of	c too taa	1112-114	CALLEC	th had of	Sales -	161	119 11	IC STRATES	1 -	111818-1
121. AC-32175011/Ponetorhutus erythropetys	BORCH SCHOOL	CALLAR	HISCOR	accressed of	CTCC 185	CALCULATION &	CARTER	TACAL FOR	Mar St		A252	CONTRACTO	ime	TTATAST
179. AC-HOD49011(Letidille bornesii	ACTING CONT	CANAL PROPERTY	TABBSC &	icclination the	(cretras)	1112212	COLLET	TACALCO T	11.0	i i i i i con	120 22	COTALTA	arret for	TTATAST
136. AC-201701010411ammen ridicepe	ACTORECTAN	TAXA.	TAXES CO.	CCC ICICC			CARTE	TACANCUT	CATCST.	ACABECE	1.1.11	COTANTAL		TT CATANT
181. AC-72178907(Alsippe poictorphals	CC 22322 C 64	CALLAR.	<b>LABOR</b>	icel actor	c ce ai	A ACTA	COLLAR	TACAL STREET	112201	114000	ALC: C	II STATA	1: E 1	TTATAT
132. AC-H02033971Argys samlai earlai	ACTON COM	CALAR	TALL CO.	ACCCO BCOCC	COACULAR .	IN CASE OF	COLATE	TATAL COL	ATCOL	1110000	A-D-AT	I COTANES	it en et	T CATANT
LNS. AC-HD4049411/JurdoLote saloolat	-CERATICAL	CA LABO	TABLE CA	accessions	CTATON	ALL CO.	COLDETT	1111-11	11-11	10000	ALC: IL	C STAATA	8-8-i	TT ATEST
134. AD-REDITIO'Trochalopteron erythroceptalum wood	STRATE CA	CALLS.	TABLE CAL	ACCOLLED CO	efettas.	13.13 14	COALTE	a a cara a c	ut-11	aca a cos	ATC: T	C STAATA	1 - E - I	TT-ATANT
191. AC-20447047:Retecophasia capistrata migriceps	A C ATT CAT	ALLAS	tabrica.	CCC	C C C T B B	1212:12	COLASTC	acaacer.	LL Col	1 10 000	LIOCIT:	TURBAL	it ettet	TTATE IT
LNL. AC-OQ412220/Muscicage sibirios	STREAT COAL	CALLS OF	TABLICE	ACCALLCRCT	CRACEAN	SANATES:	CALLER	IACAAC ST	ASTER	ACADCCC	ADD. D	COT CATA	turci	TATANT
197. AC-JF498848/Leisthgia lutes	SC TARCES	12 440	TABLE LA	celescere	14 198	1111214	COMMENT	11111-01	141-11	acketed	110.11	C STATATA	1.11	TTATAT
158. AC-SQ482218/Husciceps demirics	E-TEATCORN	CASAS	INSECT	ACC A DECISION	19111	SALES TEL	COLAR TT	TACAL ST	ACT ACT	ACASCO	ASSCREET	CETTATE	TTTT:	T ATAST
LIN. AC-ODITLN97(Muniling) ettriata	COLUMN TWO IS NOT	CANASC	I SPOCCE	ICCCC 11 IC	ici co las	1144561	COLUMN T	INCARCON.	ETTOL	A-Becco	10.1	COLCATO:	1.11	T ATANT
141. AC-MUTERINGerminishes galactores	CONTRACCOR!	123.23.5	TALL COM	acciliant let	TTACTOR	LABATER	COMMEN	TATAATAT	LSTAST	1110000	1:1: I	TTUTALTAL	it: ttc	TT CATAST
141. AC-IP498945: Cupsychis amlabarious	COLCARCORA!	1010	TABLE CAL	iccle (cic	TATIST	IN A PARA	COLLARC	ta can cert	uit di	1000000	ATO DE	TTREATAL	district	IT ATAST
142. AC-335744371Cynemie miberulaidea	BC CATECIAI		C DECK	CC C C C C C C C C C C C C C C C C C C	CECTAR	1222-228	CASATC	TATANTOT	ANT OF			TENTIN		TT CATANT
143. AC-JQ178969/HLIXeve mundare	CONTRACTOR (A)	CA CALC	A BOCCA	icclinities	113 13.0	ALC: LA	COLARTO	TACALCO T	LASS ST	114000	i i cr	COLCATA:	A REPORT	T ATANT
144. 85-EF422241(Musincegs thelessing	COLOR COLOR	CALME	IN SCORE	COMPARENCE.	CORCEASE	IN CALCULA	CONTRACTO	11-14-11	ATAT	ACADCCC	icice p	I COTANES	a reaction	T CATANT
141. BC-JQ176293 Lopcinia separhytohos	CONTRACTOR .	Children and	AB SCCA	COLO ICICO	TOA DAY	FREAD CEA	COALS TO	ILCLAC ST.	ALC: NO	ack occ	ATO: IT	C STALTA	2023C)	T ATANT
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117. AC-JPHETEDDIMORPHISMS paluetris	AN TO THAT A CONTRACT OF THE PARTY AND AND AND AND AND THAT TO THAT THE ACCOUNT OF THE PARTY AND THAT THE ACCOUNT AND THAT THAT THAT THAT THAT THAT THAT THA
118. AC-GUSTIBES/Longetelle naevia	AN COMMAN AND A THE MACCAR CANCER AND A COMMAN AND COMMAN AND A COMMAN AND A COMMAN
119. AC-HQ408084: Frisle cointpers	AND DANK OF THE OTHER ADDRESS AND ADDRESS ADDRE
120. AC-RU122418(Frinis granilis	AACTEANECE COLOR TO BE AN OCCASIONAL AND COLOR
121. AC-HOMOBORD (Frinia flaviorenteis	ALCONANCE AND THE THE ACCOUNT AND A DECOMPOSITION OF THE ACCOUNT O
122. AC-07240152:Drinis incrnata	
121. AC-JQ176122: Bylvis name	NA CONTRACTOR CONTRACTOR AND CONTRAC
124, AC-DUST21231 Sylvia missoria	ANTE ANTE AT A THE MET AND
129. AC-00571444(Bylvis constructule	ARCER ARCE THE THE RECORD CHARGE AND AND A CARE AND A CARE ACCESSION OF THE RECORD AND A CONTRACT AND A CONTRA
128. AC-JQLTERILISylvia systame	AN CONTRACTOR AND TO AN CONTRACTANT AND AND CANTA TARACTAR STORE
127. AC-609721201 Fg2via dommunia	AND TO AN A THE OTHER DECISION AND AND AND A COMPANY AND A THE TAXABLE OF TAXES
121. AC-32175111 Domatorhisus arythropengs	AN CONTRACTOR CON
129. AC-00149001/Leticilla Durnesil	AN CONTRACTOR OF THE CONTRACTOR OF A CONTRACTOR OF THE CONTRACTOR
130. AC-2017010712432coneum radiotege	ARCT BAAR A. TA C. TE C. TE ARCTAR CARRAN AND AND CONTACT TAKE A THE
131. AC-JELTSHIT/ALCIPPE polologitals	AN CONTRACTOR OF THE CONTRACTOR OF A CONTRACTOR OF
132. AC-HELOSSETTArgys eatlet earlet	AN TO BANK MICH AN AND AN TO AN TO AN A COMPANY AND A COMPANY
188. AC-8C458541(Jurdolder malcolst	AND CANAGE INCOMESTIC ACCOUNT AND A CONTRACT AND CONTRACT
124. AC-HEDREELS:Truckaloptarox arythrocephalum woo	NATE CE BAAATACCA. THE OF CARCEAN CAN HAVAN HAVAN CE THE CEAL ACTIVE
138. AC-ED4470470Retecophasis cepistents nigriceps	AN CONTRACTOR
138. RC-00483330/Huscinape sibirine	MATE BAAR DE BATE BE ER ER EN BERER BERRER BERRER BERRAR DE CANTRE DE TACEMENTE DATE DE MET DE DE CONCERCE BERRER BERRER DE CANTRE DE DE CONCERCE DE CANTRE DE DE CONCERCE DE CANTRE DE DE CONCERCE DE
137. AC-JF498848(Genotheis Jones	AR CONTRACTOR CONTRACTOR CONTRACTOR CANADA AND AN ACCONTRACTOR ACCON
138. AC-50452256/Histoireps demirics	AN OF DAMAGE THE OTHER DECEMBER OF DESTINATION AND A COMPACE AND A COMPACE THAT THE DESCRIPTION AND AND A DESCRIPTION AN
128. AC-GUETLEST(Musclosps withints	ANCE DAAR & TACK THE STORAGE AND AND AND AND AND AND THE TRACK STORAGE AND
140. AC-MTITITICSCONTINUES galactores	AN TIMATE THE TIME TO BE AND ADDRESS AND ADDRES
141. AC-37496945:Cupsychie salabasinus	AN OF SAME BOOK OF THE STRAND COMPANY AND
142. BC-221746271CpttpLe subersinides	
143. AC-JQLTEESS/HLIteve sumdars	AN CONTRACTOR CONTRACTOR CAN BE AND AND CONTRACTOR CONTRACTOR CONTRACTOR
144. SC-EF422241(Husticege thelessing	A TO DANK TATE OF THE MACCOUNT AND A TO DANK AND A TO DANK THE TAKE THE CAN BE TO THE
148. AC-J2176285 Luprinia megarhypithce	
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117. AC-19971021 (Septions polistris	1121	childee	ceee	1811	OTITO	12-14	10011	1224	1.10	i u	c ne	terte	1.1	accas	11-11	noce:		1-1-	TATO	64	a ce	1.
LIS. AC-DUTLINS/Longetalla marvia	ALTA		cete	111	STATE	Atces	eccia.	1 1-1-1	1.4	1:11	1-11-	t-f	14	CCCAL	ticti	Acces:	1111	111-	CAR IS	1. I	ia ce	ACC:
118. SC-Spiologi Brinis orinipers	1121	- und	cece	1010	01114	1.	ece a	111	6.0	11.11	i i i	h k	e de	cecal	64	ecce:	1000	10.	diffe	1 i	Line:	arce .
120. AC-40732499(Frinis gratilie	ALTA	-	celle	IATE:	ST.T.S.		CCT.			1.1		<u>.</u>	acce.	Sceee	icen.	14	1111	2040	CALL	£ - E	ace	arc a
121. AC-80000000 Frinis Clavinentris	1121	chaice.	oc.c	ia tri	ier chi	12:10	<u>i i</u>		11-11	t t	AC DEC	6 di	acce.	CCC21	feet a	14	1641.	1.1	diffe	8 B	lace	acce.
122. 85-85240252/Franks Loomets	1121	Call Co	ecce	1.11	11.10	12-12	1. 1	4	11-13	terti			tere	ccc a	ice i	18	Et au		111	8.8	ace.	Acces
129. AC-J2CT4922(Bylyis nata	A181	that is a	ecce		01150	A CO	Sec. 1		tice i	ice:	ice ic	l b	fcce	cocal	6.6	18	100.1	100	1110	8 - E	100	arce
124. AC-CONTELES Sylvia miatria	A states	Chance	ccce	tall.	state	ATC:	feets.		110	ii i	200	11.11	8-11	Acces	ic chi	18	-	<b>1</b>	1100	£ - E	1100	Acc.
125. AC-80571644/Dylvia comericostria	ANDA	duid	occe	ta the	STATE	i co	ece.		ice.	ii i	conce	Ьŝ	aces.	tee a	1.0	1.6	100		ingi :		ace	Acce
120. AC-JUST0321/Sylvia mystaces	AREA	CALLE	cocc		STATE	ATCC	aces.	11.1	5.11	TA-T	C.C.C	11.11	acce	CCCC.	11-14	ICCD:		ICA:	ALT	5 I	ace	Acce
127. AC-0097212018y1via communis	1121	CALL C	cccc	ATT:	STATE.	11-11	22-24	1	1.20	tect	c chi c c	11 D	acce	Acces.	100	ece.	1411	1 1	ante:	1.1	ace	Acce
128. AC-dg178951/Posatorhious arydoropeops	1121	- 444	écce	18	STATE.	12-12	11 E		1-13	deed)	ic cc	64	-	cccas	c e fi	acces:	£6 - 1	1.4	1120	1.1	is:is	Acco
128. AC-M9068001:Lecicille burneril	2121	chance	occe.	1111	01010.	11	11-11	<b>1</b>	11.11	11-11	1.111	fatfi		cecta	<b>h</b> 6	14	101-1	-	a tet	11-E	10.1	1cc r
131, AC-JQUITITE Pallonness suffrage	A 1 2 1	CALAC	cccc	-	CTATE	ATCOR	ecces.	-	1	10:1		1000		CCCAL	n de	acces:	Asses	-	1121	14	3-1	Acce
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131. AC-HEIGENET(Argys earlat earlat)	1100	CRANCO	ccce	iare:	STITE	ATCAS	TACTA	ALC: N		tern	ACTOC	8.8		CCC 10	11:13	i di	10.00	10.	in the	£ 8	are.	ATC N
138. AC-80439341/TurdoLden maloolmi	1121	cana c	0000	ii ii	01110	ABCC 8	81 F	11	ti di	i cen	ic cc	60 B	ecc.	fecca	fe de	ifi	1010	<b>1</b>	1100	64	1.1	Accir
134. 85-00203515;Trinhaleptarus erythrocephalus win	-0.1		cete	68	11.14	ances	6.6	4	1.1	terti		1 1	tecc	teccus	i i cite		11111	1.1		61	4.4	1
138. AC-ED147547/Heterophania ceptatizate hipricepe	4424	call to	ecce	tatt:	01110	A CO	ece.	1.1	1.1	1.1	ice ic	1 B	acce	COCA	1.1	6.66	100.1	<b>1</b> 1:	1110	8 A	aca.	ator.
134. AC-00402226 Burnings sibleins	A R BA	CALACO	ccct	tatt:	at the	A CCS	1.1	ATTAC	1.4	<b>1</b> .1		F #	acce.	ecce.	i di		-	II.	titi:	1.1	Acc	
101. AC-JE490040 Legothris lutes	ALC: N	CALLCO.	cole	TATE:	01110	12-14	ece 🖬	1 H	10.10	b t	ic i i c	1.1	acce.	feells	11:11	1.16	1.5013		uti :	1.1	CA CA	Atch
138. AC-02483210/Muscicepe desurice	ANEL	could	cccc	iπΞ:	OTCTS.	ACCU	1.1	ALC: N	ci chi	te en	ACTC:	t de	acce	CCCCL	feri	acets:	0.00	÷	ALL	100	ACC	ing in
139. 20-00571907(Hupcicape striate	31245	CARACO	cccc	i II	11.10	11-11	Ecc 24	111	10-10	tet	ce c c	ĿВ	acce	coce	1.1	1.11	::::::	<b>1</b>	1119:	\$c - 2	dec:	1000
140. AC-07100111 Cerestrutus galactores	ASTA	chia ce	cett	1411:	81.14	A COL	81-84		11-13	<b>1</b>	1 H H	<b>b</b> - Đ		Acces	14-14	let b	100	1.1	1110	ii i		Acc.
141. AC-JT496545/Copeychus malabari.cus	BATA.	111	cocc	1111	attita.	11-10	ti ti		10.	fref.	ic ii c	1. 10	1000	fects.	11-11	icce:	100	1.1	1110	11 B	are	1000
143. AC-J25766271Cynemis mikeminides	ALTA	CARACO	cece	1.11	STATS.	ATCCC	ecces.	11-1-1		TCCT	Cocc.	1cele	1.1	TCCCC	ICC.	SCT D		TCA:	LATES	ter.	acc.	lat a
148. AC-32175555:0125ave moders	1121	calle o	cece	1 ATT	11.14	12-11	\$ 11A	100	0.1	12 1		100		cece	ice ii	10010	INC.	114	TADAC	1	dice	ACC:
148. AC-EF9222811Muscicege thalassine	ALTA	case	cere	INTE	STOTA	ACCO	I:TA	ALC: N		1000	AC CC	ice is	1.1	cccc.	fects	1.11	CIEN	TTA:	CATEC	1	3.10	ALC: N
141. AC-32075290 Generate separtigistics	in the	CALACO	colo	tart:	a bi	12.11	ICC31	111	10 - 10	n i	cc cc	1	11	ccccr	teett	acca:	TOR O	1.1	tate:	1	11	Acces
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43. 25-59 TERMI Concinia meastheridan			and the second							
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197. AC-90911907INASCIONER PILIETR	13 0 2					A 1997		1.1	10.116	
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17. AC-STAPETARILAINGILA INCAS	12.0	10 1.8				1.041	8 4	10.1	1.4	
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134. AC-HELAUTELTENDALAPTARENE arythronaphalian wood		101 101-00			- 1 M.					
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117. MC-3F967023(Megaluris palustris	unter andere ander andere ander andere a	if can be a the state of the
118. AC-ODITINGSILementalia maevia	an factor adorate the second construction of the case of the	INCOME INTERESTINGTON CANESANTATIONS CREEKE TOTONS
118. BC-SQ608884) Prinis chiniptes	an painter faile carrier of the land of the bestate to be have the	носсідтваєтта тастаста за таталалесь са тател
120. AC-00722418 Frinis grazilia	ANTERACTION CONTENTS OF CONTRACTOR ANTER CONTANTS CONTA	IND CANTERNATED CATERCEACED CAN TAX TAXAAA COCCASC TO TO THE
121. AC-HQ6000000 Prints flavioentris	andanker besteht i treftaktigen states statt besteht bie	IN THE CAR SECTION OF A CARD OF A CARD AND CONTRACT OF A CARD AND A CARD AND A CARD A CARD A CARD A CARD A CARD
122. AC-07240202: Prints increate	aufauste besteht the fete factorial entrant of concentration	INCOMPTON TO A TRACK CARD AND AND A DAMAGE COMPOSITION AND A DAMAGE COMPANY A
123. 80-325763221 Fy2via nasa	ANTAINE TRADECKTORE COCCEPTION CONSCRETE ANT CONTROLS OF THE	ABCANT INCOMENTACIA CANCERCATION CRECESSOR CALCUL
134. AC-00973133/BySvia miaeria	ANTANACCESSICEST CONTRACTOR CONTRACTOR CONTRACTORS	IN CARTON OF CALSES CALE AND AND AND CARES CONCERNED.
138. AC-OUNTIGGGUBYINIA cressirostris	ANTAINCE TABLE AT CHECK CONTRACTOR CONTRACTOR TO TATE OF THE	SECART THE CARCELE INCOMENDED AND AND A DESCRIPTION OF THE CARCELER OF THE CAR
128. AC-35110321 Sylvie systeme	ANTAINCE TANCENTE TO TO CONCERNE AND CONTRACTOR TO CATEGORIES	IN SCRATCHAST SCREEKEEN CANTERNATIONAL COCCUSCION CONTACTOR
121, AC-00912120/Bylvis communis	ANTANACE CONTRACTOR CONTRACTOR AND AND CONTRACTOR AND CONTRACTOR	BECAMPTER TO A CARCELE AND AND CARCELEASE CARCELECCE TAX OF
129. AC-22(19951) Domatoritinus atytheogenge	ANT COACCEPTION CONTRACTOR CONTRACTOR OF A TAXABLE CONTRACTOR OF A	INTERNET AND THE STATE AND AND THE STATE AND
129. AC-09D68051(Laticilla Burnesii	THE REAL PROPERTY OF THE REAL PROPERTY OF THE	IN TATCH STRATES AND INCOMENDATION CONTRACTORS.
130. AC-20178107/Dellarment rufinge	CONTRACTAGEORY CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	COCANTERNETTERTREACTORES CAREATERAS COCCESSION TATENC.
131. AC-JQL73967(Alcippe poloicephala	AND DECEMBER OF THE PARTY OF THE PARTY OF THE PARTY OF THE	и во на техно представляет и скате ската за за сести сести сести се на сести с
152. AC-HEIGDOTTArgys sariat earlat	ANTONADORADORADORE CONTRACTOR AND ANTRONY CATORADORADOR	IN DEALERS OF THE ADDRESS OF THAT THE TAXABLE COOR SECOND AND INC.
199. AC-90439941/Dardoldes malcolmi	and the contract of the contract of the second state of the second second second second second second second s	IN CANTERS FOR A CALL CONTRACT CARCELIAN ACCOUNT OF A CALL
134. AC-MEDITELEITENDALISTARIN anythroughalist wordt	ARTABACCTARCTRESS TO COTACATOR REPARTMENT OF TATIONAL	In a transmission of the same his case was a final and the same second second a first
198. AC-ED6470471Netecophasia capistrata nigriceps	ANTONNO TRACTOR COCCUCATE AND ANTO COLORISON	HERE AN THAN TO A TO A CARDINE AND CANCE THAN A DECOME SCORE AND CARD.
134. AC-00442224/Musticeps elbirics	ANTANACE THE CRATTER OF CONTRACT OF CARACTER CONTRACTOR AND CONTRACTOR	THE PATTANCES ATTACANCES FARTERS AT ANALOR CONCERNENCE CONCERNENCE
10% AC-JF4900401Leisthris lutes	ANTANACE PARCENTERS TO CONTACT TARGET AND CARDENAL CONTACT OF THE CARD OF THE OWNER	AR CARTERNESS CREATERNESS CARTERNAL COCCURACE AND COCCURATE AND COCUPATE AND CO
138. AC-ODISIDIAINUNCICARE Desuring	ANTAINCE TANCENTEE CECCTER ACCESSION CONTRACTOR STATES	ISTOCK THAT TO CATERCEACE IN TRACKTANA CONCERNENCE OF TO TO TO TO
189. AC-00511907:Musclospe striate	RETAILS TO BE CATTOR COLOR TO BE AND THE REAL TO COLOR TO THE	SECTATION DECKERSICAL MUCHAECAN CANADOCCUPICA DE LE CAL
140. AC-MPREDISICSecontriches gelectotes	ADTAGAST CONTRACTOR CONTRACTOR SOUTHER STORE TATIONAL	ISISTATEAN TERTENTACIAN CAUCAN PERACRESANAN CONCEPTION CHIL
141. AC-IE498845:Copsychus malabatious	ANT COACE TABLETATIONS INCOME TO AN CARE TATES TO CARE OF THE	HER CATTARCET CATCACCAL CARCATERARCE CONCERNENCE CONTRACTOR
142. AC-32574637)/Cynemia mdwenilmidea	ANT CARCENSICAL CONTRACTOR AND ANT CONTRACTOR OF CARTOCIDAD	TECHTCATCANCETCATCHCAACHSCHATEAACHTAAAACCACCECECECECEC
148. AC-JQL78569(H11tave mondare	ANY DESCRIPTION OF THE PARTY OF THE PARTY OF THE TOTAL OF THE	AT DO CANCELLE AND AND AND AND AND AND A PARAMETERS OF SCHOOL SECTION.
146, AC-EF4222411Nustriceps thelessing	ANTANACCIESCONTRESCONCERSCONTANCES ANTERNAL CONTANCES ANTONIA	INSTANTION CONTRACTOR OF A CALENDAR CONTRACTOR
143. SC-20176283/Guscinia megashypohos	RETAINED TABCOAT FETETECCO TO SECONDER THE CONSTRUCT OF THE	SCOCKATEANCESCATCACKACKACKECKECKACKEKAKAKCCCCCEBCCCEECKC
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146. BC-RC7096411Exectsis svettos		ATABESOSEACCÓCCCEASSCO
147. AC-SUSTITUT:Callings performance	······································	SCONSKATANTING INCOLOCOTANICOL
148. AC-00402788/Taresiges cyanizus		SCCREATERED STATESCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
148. AC-JULY6404 Termiger chrysenos		SCCSSANTANTESSTACCOCCCTANCC
190. AC-JQSTabas/Floedula stroghtata		accessariations factocold fasters
151. AC-024515911Ficedule albumille		SCOREATARTERSTACCOCCCERSICO
162. AC-009T1895;Floedula parva		Occasharastessaraccoccessarco
151. AC-DEPTETED:Thomainens frontalis	TARTERCANAL TRACESCONT AND TRACESCONTA AND TRACESCONT AND TRACESCONT AND TRACESCONTA AND TRACESCONT	SCOREATERISTANCE CTOCCCTERESCOT
184, AC-00463382(Phoeniourus erythrohotus		SCOREAR ASTASSACCOCCULARS
155. AC-00572034(Photenizurus photenizurus		SCORGANTARIESOTEC BOCCCEARECC
154. AC-00482374( PhoenLourus erythropestrus		BCCBERATARTARSTSCC0CCCTABRCCT
187. AC-004821711Monstenia senetting		SCOREANTARTERSTACCOCCCTABROOM
198. AC-JQUTH418/Montirole solitaring		occusariantesetaccoccetaasce
158. AC-OpenDelli Basicula mautua		ACCREATE TRACE CONTRACTOR
161. MC-321741818 Bastoola caprata		Sconsaling to state of the second state of
141. AC-JULYEISI Samirnin ferreis		SCOREAN FAIR FREETA CONCERNING
142. AC-DQ401479:Denanthe elboniger		
161. AC-00171394 Denanthe cenarths		SCCREATARTERSTACCOCCCTARECOT
161. AC-IND44970: Octanthe Lugens		STORESTACTOCCCERATION
143. AC-RETROATIOnnamile finachil		
166. AC-000713995/departite pleathanks		SCREEKATERSOTE DOCCURATION
147, AC-DU5949/Osnanthe samhspryste		ACCESANTESTESSINCOSCCCTANECO
148. AC-89262239:Genanthe desert1		SCOREMATERSOTS CONTRACTOR
169. AC-27400302; Denamike Laubelline		SCORGANTAR FREETACCOCCCTABLECC
110. BC-EFRIHOI/Joothers daung		OCTOGRATABLESOTACCOCCCCARBOCC
TTL: AC-OD02202103/Turbus viaciments		SCOREATERITAGECECTERETC
172, AC-OUT2145/Dubdue illectue		OCCUPATION AND A CAC DOCCOMMENDED
113. AC-H0262611/Tarmine marnie		SCCRAMTARTACITAC DOCCCLARECON
174. AC-Spinle70/Tundus suficedlis		SCOREATERSTOCK CLOCCERESCO
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5%* 37 🖹 🖝 - Mr. C	ni's gape	Selected genetic code: Venebrate Mitochando

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146. AC-80789641/Luncinia svettos	TO TAKE OR AN AND AND CAROLAND CONCEPTS THE AND CAROLAND TAKES OF A DATE OF THE ADDRESS AND THE OTHER ADDRESS AND THE ADDRESS
147. AC-80913148) Callings perturalis	TO TAKE ON TAXA PROPOSITION OF TAXABLE PROPERTY OF TAXABLE TAXAB
148, AC-0048279817straiger cynnicus	TO THE OWNER WARE DESIGNED AND COMPANY TO THE TAXABLE INCOMES TO AN OTHER OF A DECIDENT OF A DECIDENT AND A DECIDENT
143, AC-22170404 Taraiger chrysseus	to the state of th
150. ac-JgcTass40(Fice-bile strophiets	TO DEAL AND AND DESCRIPTION OF A DESCRIP
151. AC-SQUELERIIFUNDALE albouille	CONTRACT, CALLARD, DUCK, CALLARD, C. CO. TAUGARA, D. CAMP DA AND DA AND DA C.
152. AC-HUNTLEND Flordula parva	ter 🖞 and shall have been a construction of the statement of the same of the statement of the
153. RC-20210103 Prosenization frontalis	ELECTIC CARCENARY TRACCONSCIENCES CONTRACANAN CARCENARY TATATOTAL CUTCACARCONSTRUCT TO CARACARCE TO CARACARCE TA CARAC
154. AC-02482162(PhoenLourus exythronotae	E E ALCONSCIANA ENSECUENCIENCE DE LECCERCENCENCE SECUENT ENTRE DE LE CONSCIANE EN CONSCIANE EN CONSCIANE EN CON
135. AC-GRETIII/(Phoenimumus phoenimumus	TELEVICE AND CARAGE MARKED AND COMPARED AND A COMPARED
154. AC-60482376(HotenLourus erythropastros	The state of the state state of the state stat
197. AC-OQUELITIONISISTA examilie	EN E AND DAR MARE DER CARE AND DE CONTRACTOR DE CONTRACTOR DE CARE DE LA CARE DE LA CARE DE LA CARE DE LA CARE
158. AC-32175415(Nonticola editarius	TO BE AND THE REAL PROPERTY AND AND A THE REAL PROPERTY AND THE RE
159. AC-OQ452623) Destenia meanur	ET STAT COMPANY STATEMENT AND CANCENED AND STATEMENT IN CAMPANY IN CARCENES COMPANY OF AN ADDRESS OF A DATA CARCENES
161- AC-32170200 (Beloo) a caparta	TO DE ALCO AND THAT THAT THE CASE AND A CASE AND AND AND AND TAKEN THE RECORDER OF A RECORDER OF A DATA THAT AND A DESCRIPTION OF A DATA
141. AC-70190311 Sectoria ferreta	EX STATE OF A DAMA STOLEN AND A DECKAR AND A DAMA
162. ac-og466479:denminte albonager	IN THE REPORT ADDRESS OF A CARD AND A TRANSPORTATION AND THE REPORT OF A CARD ADDRESS A
141. AC-DUTT1994/Detanthe repartie	IN THAT IS AN A TANK THE CARE AND SO THE TABLETA HAS AND TAKEN TO TAKE THE RECENT AT TAKEN AND THE TAKEN
144. AC-ID044870(Departme Lupping	EN EN RECEIVE ANNA ER ANNA ER ANNA ER ANNA ER CANADAR ANNA ANNA ANNA ANNA ANNA ANNA ANN
143. AC-02735457:Genetite Fanachul	ET E DE TE BARENANTER DE COMPETANTE RECECTOR E RAMAN FERRE CAMPE EN CARE DE ME ACOLA DE LE ALCONE AL DE LE ALCONE AL DE LE ALCONE AL DE LE ALCONE
164. AC-00971998:Octanthe plenthanka	IN 2 AR CORANGE AND A DESCRIPTION OF A D
161. AC-30255549 Detantite samboprysta	TELE AN COMPANY AND AND CARE AND COMPANY AND CARE AND CARE TA CAMPANY AND CARE AND C
161. AC-0925322910enanthe deserts	THE ALCOHOLD AND AND TAKEN AND AND AND A THE ASSOCIATED AND AND A THE ASSOCIATED ASSOCIATED AND A THE ASSOCIATED AND A THE ASSOCIATED ASSOC
169. AC-394993322(Generative Landwilling	E E E RATA E O RATA RARA E BARDA CARA CARDA CARA E RAMANA CARA CARA E E RANA E RATA E RATA E RANA E RATA E RANA E RAN
170. AC-EFV18002-Southers datas	. I I E AR O RAN MARA DANG CAROLANDA AND A TANG BARAN AND DA TANG DA TANG TA TANÀN AND TANÀNA DA TANÀNA DA TANÀ
111. AC-0245255517anHus viaeLinnes	I TAT THE REAL DESCRIPTION OF THE CONTRACTOR OF AND DESCRIPTION OF THE
172. AC-HUWT2148-Turbur 111anur	TO TAKE AND ANALY AND
113. AC-HBCA1007:Turnhue merula	A DOME OF A DESCRIPTION OF DESCRIPTION OF A DESCRIPTION O
174. AC-SQ482810:Turdus reflectlis	IN TAXABLE REPORT TO A DESCRIPTION OF TAXABLE REPORT OF TAXABLE REPORT TO A DESCRIPTION OF TAXABLE REPORT OF TAXAB
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41. AC-20116614/Targiner chrysenst	The submitted designed based for the submitted of the submitted by the sub	<b>1</b>
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11 AC-GOADINE Flowbule alternitie	The rest strate consistent light for the first of the second strate and the second strate as a strate to the second strate strat	1 ×
52, ac-colligatificedula carva	The tax start exceeded count for factor is farmed over the start and the start of the start of the start of	- North
11. AC-7070101 Browningers Prostalia	TAX - NAMES AND DESCRIPTION OF TAXABLE PROPERTY OF TAXABLE PROPERTY AND TAXABLE PROPERTY	
54. \$C-004020021Phoenimizus esytheonetus	The same a rear rearranger water rear the rearranger water and a rear and a rear and a rear and a rear a	- Code
51, AC-51912126 Three incrus phoenimums	TO CANTER TAX OF CONTINUES AND TAX TAXT TAXTAN CONT	-
Se. AC-00482076: Phrentourus erythrospetrus	The ALPERTON OF ANTIPARTY AND THE PARTY OF ANTIPARTY AND AND AND AND AND AN ADDRESS OF A	and a
17. AC-DOMESIZING AND A STRATEGY AND A ST	TAX AND TAXABLE OR AND TAXABLE TAXABLE TAXABLE TAXABLE OR AND TAXABLE TAXAB	
14. AC-30175413/Monticole scitterius	The subfright entering which has been ever that an ever subfright the state of the	- Colores
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et. 10-2017s100 Bastoola cancata	The submit submit setup of the fact of the setup of the s	and a second
el. AC-MUTHIELISaturila farraus	THE CANETA TAXTACTACTACTACTACTACTACTACTACTACTACTACTACT	- Code
62. 20-00000479:Denantte almontuer	The same as that the second track to be a start to be second as a second and the second same as the same to be a	and the second
41. AC-00171904(Departie cenatifie	TO CARTATAN OF US DETERMAN THE TAST CONTACT ON CARA ATEL ATEL ATEL ATEL AT AT AT AT AT AT AT AT	- secol
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41. AC-JT4921021Ostanthe Leabelling	The same test of the internal first faith that the first of the set of the same state in the same test of the internal first in the same set of the same set o	- BECCH
10. AC-EFELSHOD/Inothers damas	De cart abar engenett engar bis trebe et tarbatteres co ana char atter constant as abar fi fin fi	a con
11. AC-00483583:Tundus vianiminus	The sufficient for any first f	The of
12. AC-00012145:Tupdus 111anus	BACKARTATOAT ORANOAT ORANA DA TAN TAN TAN TAN TAN TAN TAN TAN TAN TA	accor
13. AC-80062017/Turnius serula	BE CHAT ATEAT COMPANY DATA TA	record
14. AC-80462870/Tapdus reficullis	FOR ANTIPATE STORET BARE THE TAKE THE TAKE SOUTH STATE OF ALL ATAN ATAN ATAN ATAN ATAN ATAN ATAN	record

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147. AC-8797774E:Callings pertoraits	ANTACONA COCCUTATE OF CANTOR OF TAN CACCUMATERS COCCUTATE COCUTATE COCCUTATE COCUTATE COCCUTATE COCCUTATE COCCUTATE COCUTATE COCUT
148. AC-00482798/Termiger communi-	AND COMPANY OF THE OWNER OF THE COMPANY OF THE DARK OF THE REPORT OF THE THE THE COMPANY OF THE THE THE COMPANY OF THE
148. AD-20176404/Detaiger chryseeur	ANTACONA COCA DATE OF TAXEC TO ANTACON CONTRACTOR ANTACTA TO ANTACTOR OF CONTRACTOR CONTRACTOR ANTACA PARTY OF A CONTRACTOR OF A C
150. AC-305Tall46(Floedule strophlats	AND COMPACT AND COMPANY OF THE TOTAL COMPANY OF AND COMPANY OF THE TOTAL COMPANY OF THE COMPANY OF THE TOTAL COMPANY.
151. AC-SQUELERLIFICHERINE albitille	RATE CHARCECCC THE CONTACT IN DATIANT IN CONTACT ACTION OF CONTACT CONTACT ACCOUNTS AND A THE CONTACT ACCOUNTS
152. AC-OUNTLESSIFLOEdula parva	A REACTION AND COLOR AND C
153. AC-JEFTUTUR Primeisumis frontalis	ANTA COMMACCOCCUTATE ATATIAT COMPOSITIANT CATEGORY OF THE COMPOSITION OF THE COMPOSITION CATEGORY OF TAKEN AND CATEGORY OF THE COMPOSITION COMP
154, RC-004521021 Proentourie exythronomie	AN DATE AND COOL COMPANY AND CONTRACT OF CAMPACTURE AND COMPANY AND COM
155. AC-GDSTJDJG: Phoenicurus phoenicurus	AN PACKANECCCC DARE OF TAR CONFERNATION AND AND AND AND AND AND AND AND AND AN
154. AC-02482376(PhoenLourus ezythropastzus	ANTIA CONTRACTOR OF ANTIA DE CARTA DE CONTRACTOR DE LA CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE LA CONTRACTÓR
157. AC-OperITITHerminals exectlis	Reflection Freeze feite einen ste Berten vollen auf einen eine Berten eren ste Berten einen auf einen auf einen
198. AC-70176416/Menticela solitarias	ANTA COMACCOURT DE MACHANINA COMACCANTON DE MARTINE DE MARTINE DE MARTINE DE MARTINE DE MARTINE ATTACIÓN DE MARTINE
158. AC-OptioE21 Seconda mesma	RATACCARACCES SET SECTOR SERVICES CONTRACTOR SECTOR SECT
140. AC-J21741801Becidita capieta	ANTAL CARACTER TO THE STATE OF THE TAXABLE TO THE TAXABLE TAXAB
141. AC-20191313 Salutis farmus	KATACCHARCOCE DETENDATAT CONTREPANTA CONTREPANTA CATEGORICE CONTRECTOR COORTS TO SAUCHTENTA CONTRACTOR CONTRECT
142. AC-DQ011479 Genanthe allowiger	NATE CHARGED CT DE CENTRE ENTERNE DE CANTE COMPENSATE CENTRE CENTRE CENTRE COMPENSATE DE CENTRE COMPENSATE DE C
143. 8C-00971394: Genanthe cenanthe	NATACCAME TO CONTRACT AND CONTRACT AND CONTRACT AND CONTRACT AND CONTRACT AND CONTRACT AND AND AND AND CARD.
144. AC-BHI44870/Denanthe Logena	NATE CHARGE COLOR & BE CHARGE TO THE COMPACT AND AND COLOR AND COMPACT
141. AC-MT121411:Departure finations	RATE CHARTECCCC CONCERNENT CONTRACTOR CONCERNENT CONCERNENT CONCERNENT CONCERNENT CONCERNENT CONCERNENT CONCERNENT
164. AC-00971999/Oesanthe glenchasks	ANTAL CANACCESS TATEMENT IN THE SECOND CANADARY AND
167. AC-JR255141/Denarche aanthoprysca	NATACCAMACCOCCE. EXCONTRATOR DATE DATE CAN INFORMATION TALE CONTRATOR DECEMBER TO COMPANY AND AND AND AND AND A
168. AC-89292229:Denanthe deserti	AND ACCORDED TO THE ADDRESS OF THE ADDRESS OF THE ADDRESS AND ADDRESS ADDRES
161. AC-JF490502) Departure installing	A A DA CAMBOOCCE AND CARACAN CONTRACTANT A CONTRACTOR OF CONTRACTOR OF CONTRACTOR A CARACAN CONTRACTOR OF CONTRACTOR
170. AC-EPI18602/200thece deums	NATA CANACCEST TATE OF THAT IS TO AN A REPORT AND A THE SECOND SECOND SECOND SECOND SECOND A THE SECOND A THE SECOND
ITL. AC-02482883/Tanbis vilativenus	ANTACCAMACCOCCURATION CONTINUES CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR CONTACTOR
172. AC-00072145/Dandus Lilanus	AND COMPOSED OF THE PARTY AND COMPANY AND CO
\$73. AC-HOUSDAY/Turdue merula	RATACCARACCCCCTART OF TAX CART OF TAX CART OF TAX TAX TAX TAX TAX TAX OF TAX OF TAX TAX TAX TAX TAX TAX TAX TAX
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147. AC-MUNTETATICALLings perhoralis	ANTANA CONSIGNATION CONTRACTOR CONSIGNATION CONTRACTOR CO
148. AC-00482788178283082 cyanazus	Referie Charles and a second
148. AD-32176404 Decemper chapsense	A TANK CONSTRUCTS TO TOO TO TAKE AND AND A TO TOO TAKE CONTRACTOR AND A TAKE A CARE A CARE A TAKA CONTRACTOR OF
150. AC-JQSTable Flowdule strophlats	AND
151. AC-OpiNISHIFIcedula albimilla	TERMENTER AND
192. AC-OUNTLESSIFIcedula parvs	AN TANK CONSISTING & CONSISTING OF CONSIS
151. AC-JEFTOTET: Proveniousus frontalis	AN TANK CONSIGNATION FOR THE REAL TO BE AND THE TO BE AND CONSIGNATE TANK CONTACT AND
154, 30-00462962(Bujentourus exythronotus	ANTANA COMPLETATION FOR THE AND AND AND AND THE SAME TRANSPORT AT AN ADDRESS AND
155. AC-GUSTIDIG Phoenicurus phoenicurus	A PARA CONTRACTOR CONTRACTANCE AND AND A CONTRACT CONTRACTOR AND A CONTRACT AND A CONTRACT AND A CONTRACT A CONT
154. AC-00482176 PhoenLourus erythrogastrus	A PARTY A PORT OF THE PORT OF THE REPORT OF THE PARTY OF
157. AC-02412171:Munnants susstills	NET TATE TATE OF THE AT THE AT THE AT THE AT THE AT THE AT THE TATE OF THE AT T
158. AC-JQC75415/Hontinuls politarius	AND AN ADDRESS OF THE PARTY AND ADDRESS OF TAXABLE PARTY AND ADDRESS AD
158. AC-OQ4525231 Resincts meanur	REPARTOR STREET, STREET
141. AC-3217418015extools caprata	AND AND CONTRACT OF A CONTRACT OF
141. AC-301761411Santonia farrana	ANTAL TALE OF THE CONTRACT OF A DESCRIPTION OF THE CONTRACT OF THE CONTRACT OF THE CASE OF THE CASE OF THE CONTRACT OF THE CASE OF THE CAS
142. AC-00011479()enanthe alloniges	A REAL COMPANY OF THE REAL COMPANY FOR A SAME A PROPERTY OF THE RAY OF THE REAL OF
143. 82-00071204:Denanthe cenanthe	A TANK COMPANY AND A CONTRACT OF A CONTRACT OF ANY OTHER AND A CONTRACT OF
148. AC-IM146210:Depanthe lugens	AN TANK OF REPORT OF STORE AND
141. AC-MT793417/Detenthe finschill	ANTIAL CONSIGNATION CONTRACTANT AND AND AND A CONTRACT
164. AC-00571995: Oenasthe plenthanks	A PARA CONSIGNATION FOR THE SAMPLE AND A TO CAMPACTURE TARGET AND THE CAMPACTURE AND A DESCRIPTION OF THE TARGET AND THE CONSIGNATION OF THE CAMPACTURE AND THE CAMPACTURE AN
167. AC-JEISSB48(Generative santhoprysts	A PANACESANCES TO COMPANY AND AND AND AND A COMPANY AND
168. 3C-89292229/Denanthe deservi	A PARTY CONTRACTOR OF A CONTRACTOR
161. AC-JT030502:Detunity Loubelling	RETAIL CEASE AT THE CONTRACTOR FOR AND AND AND AND CONTRACT TABLES OF A THE REAL AND A THE A THERE A THREAD CONTRACTOR OF THE
170. AC-EFUISIODIDouthers dauss	AN PARTY CHAIN HAR DE CONTRACTANO AND AND TATO PORT AND CHAINED THE CAR OF A THE AND A CARD AND CHAINED CONTRACTOR OF A THE
111. AC-00452583: Tundus visitivenus	RETAILED THE CASE OF CASE OF CASE OF THE CASE AND TATE OF CASE
172. AC-OWY214h:Turnius 131acus	AND AND THE PARTY OF THE PARTY AND
171. AC-HEDGDORT(Turnue merula	RETAIL TRACTACTOR STATES CONTRACTOR STATES CONTRACTOR STATES AND
114. AC-004829701Turdue suficollis	AND AN EXAMPLE OF THE POST OF THE REPORT OF THE ANALY OF THE PARTY OF THE AND A THE AND
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146. AC-80789641/Gamminia sventos	the state of the	6
147. SC-SUSTITAT/Callings pertorsing	treater the bar for the for the state of the state of the state and the state of th	7
148. AC-OQ462788/Threatger cynnurus	to a to a to be a set of the set	
148. 80-32(19604) Taraiger chrysaets	the state of the first of the first of the state of the state of the state of the state of the first of the state of the	ii.
160. aC-J217a546 FiceBula strophists	the second state of the second s	ł
151. AC-SQUELESLIFLOWDULe electlie	TO A TANK OF CALL AND A THE AND	-
152. AC-HUTLESD Flowdula parts	ter an and the second	1
151, AC-DOTUTO3 Phoenicurus frontalis	TO A TO THE REAL OF THE AND CONTRACTOR AND A DEALER AND CANAGOR AND CONTRACTOR AND CO	1
154. AC-00482362/Proentourus exytheonorus	ten a ve Breite Beite Beite Beite Beite Berte Bange Berte B	1
155. AC-DIST2126(Bhoeniminus phoenimumus	fer a state of a sector of the call and the same and the same same same same same so a sector of the same same same same same same same sam	
154. AC-60482976 BhoenLourus exythropastros	le care en la composition de	8
127. AC-Opid2171/Hontannia sussills	ten a te fre fan te fan te fan een te fan te fan te fan te anter fan dat er se te fan te fan te sere er anter fan te se	1
158. AC-JULTEALE-MUSTINDIa eclitarius	bear the second of the second of the second s	1
159, AC-00452523 Sectoria meurus	ter a statt er finde er er statte er er statte	1
140. AC-JQLTHINDERLoobs Capters	the state of the	8
161. 85-20174181/Sastoria farrenta	TO HE COME TO HE TAKE TO THE TAKE TO THE AND THE ADDRESS TO THE TAKE TO THE TO THE TAKE TAKE TAKE TAKE TAKE TAKE TAKE TAK	6
142. AC-00483479/denanthe allouniges	ter and the second s	ł
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164. AC-IND1460701Cenantie lagens	ince a strate provide a se de contrata de la contrata de la contrata de la contrata de la contrata de	1
165. AC-RETRIEST/Genantie finachis	Inconstruction and a second seco	1
168. AC-00071995/departure gleechasks	In the second se	8
161, AC-20255149 Departure santhoprystes	the area of the second state of the second state and the state and the state second and the state of the second	1
148. AC-09252229/Denanthe deservi	in the state of the second second state of the state of t	1
168. AC-274900012) Cenantite Louiselline	Inte a control for the for the fort of the case that cannot be taken a second to be taken a fort of the fort of th	6
110. AC-EFEI3M2/Doothers damas	ter an	
171. AD-004525530 Tundus viativerus	ter bere bere ber ber ber ber ber ber ber	ā.
172, AC-00012148-Dundue illecte	TELE CONTRACTOR CONTRACT	ā
173. 85-8026262011 Durnius serule	ter all te Brender and the Brender and B	ň,
174. AC-OD492970/Turdue ruficallis	ter an eine an eine an eine an eine an	
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147. AC-HTWITTIGICallings perhoralis	ARCCRARCECCECCTCCACCCTCCACCCTCCACCACCACCACCACC	OF THE CARENE CONTRACTOR OF THE RECEIPTING CONTRACTOR AND CONTRACTOR
148. AC-00402788/Darmiger cyanurus	ALCO TALLO DO DO TEO DE COLOCO TE CANDADA DE LO COLOT	AC BEER COMPANY OF THE DIAL POST OF CALCUMATERS OF TAXES
148. AD-20176404/Decaiper chryseeus	NATO TANA CACCAC TET CENTER CALCORD CADEAUXA SUANA COCA OF	ACTIVACCARCECCE.
150. AC-JQLTatatificedule strophists	ARCE TO ARCE CORE CONCEPTION AND AND AND AND AND AND AND AND AND AN	frattalden
151. AC-SQ4TLTRLIFIC#dule albicille	KATCHARTECKCOLLER CONCERNENCES CARDANANANA COCASE	A TO DO NATION TO THE TAXE IN AN ACCORDING AT COMPANY OF
152. AC-OUNTLESSIFLOEdula parvs	AACCELLA CACCACCELCERCORCCCELCANDADAACAACAACAACA	ACTORACIACIONTE
151. AC-SEPTITUT Powenizurus frontalis	AACCTUAACACCACCTTCTTTUACCCTSCADUACUASUAALACCCAUT	ACTITACCAACACCUTTE BUATTITE SECTATE
154. RC-00452M2: Patentoirus erythronotius	AST TTAXACECTACCTCCTTTACCCCGCARRADHABACCCTCT	ACTOR DECOMPOSED FOR THE PROPERTY CONTRACTOR DESCRIPTION AND CONTRACTOR OF A DECOMPOSED OF A DECOMPOSE
155. AC-GOSTUDIO Phoenicurus phoenicurus	AACCEAAACACCACCEECEEEEACCCOBCACEASSASSACCCEEEE	ACT
154. AC-00482376(BioenLourus erythropastrus	ANTO TAXACACCACO TECTO CARCECO CARGADANA COCTOT	AT STE CARE ACCOUNTS AND THE OWNER COMMANDAYS AS TRANSFORMED
157. AC-OperIty: Monoticals susstills	ANT CRAATACTACCTTC TTC DACCCTRCADENDERSECCENT	ACTOTACCANCETETETETETETETETETETETETETETETETETETET
198. AC-JQ176415(Monticels solitarius	ANT TAXATICS CONTANT COLCEPTER STATES AND AND AND AND CONTANT	1° 111 1 ° 1
158. AC-SQ4526231 Savintle meurum	ARCCHARTACCACCTTCTTTCACCCTSCRCERERACEACEACEACEACEACEACEACEACEACEACEACEACEA	ACTIVACEARCATES CHIEFARTS CONSERVACE ACAMAZINA CASCONARTS CT
140. AC-J21741801Bexidtle ceptete	AACCTANACACTACCTTCTTCAACCCCCCAAAAAAAAAA	10 TTT 1 COLL ( 1 C TT
141. AC-2017Elfildesimis ferreus	AACCTANACACTACTECCERCUACCCCSCADDANANANANACCACE	ACTITACCAACACCTI
162. AC-DQ601479(denonthe allowinger	AACCTARACHCCACCTC TETOACCCCCCCBABBABBABBACCCA01	ACTIVACIAN CACINER CONNECTIONS CACCONNAMERATIC AND CONTRACTORS
143. SC-GUSTLE941Genanthe cenanths	AACCEAKECECTACTECTECEACCCCCCACEEEEEEEEEE	ACTIVACULT INTER.
164. AC-IBE146210/Depanthe lugena	AACCTAKACACTACCTCCTTTRACCCCGCABEAOEABEACCCCAGT	ACTITACCALCATC
181. AC-MT193411: Detentite finsthill	AACCTAKECACTACCTTCTTTTACCCCCCCSCSSIACIACIACCCCCCC	ACTIVACCAACACCE CERCENATITEERS CAC
164, AC-00971995/Oennotte pleschanks	AACC LAARCECCECCTCCTCTCRCCCTCCASSACSACSACCCRCR	ACTERIACIAL AT TITL
187. AC-JRI55349/Detauthe anthoprysta	AACCEAAACACTACCTTCTTCTACCCCCCCADIADIADIAUACCCDUT	ACTIVACCA CATCONS.
168. AC-89252229 Desauthe deservi	ARCONARCE/TACCTS TO SECOND CAREADANA COCKET	A TTTAC ASCACT
168. AC-JT498003:Desaythe issbelling	AACCTAKECECTACCTTCTTCEECCCCCCCECESEECCEEEEEEEEEE	ACTIVACCAACACCE CERCEAACE CERCAECAECAEAAACAECCEAAAECCE
170. AC-EF918002: Douthers daugs	Abter TAXATACTACCTTCTTCCACCTACASEA000004884cccc01	ACT CARCONSCREET CONTRACTOR CONCERNED AND TATATATE CONTRACTOR
111. AC-SQ452553 Tandus visitiminus	ABCCTARSCREEKCCTTCTTCCACCCRECKDCACCACCACCACCACCCCCC	ACTOTACCARCECCECTURETCERCOSCERCECTURESTER CREECENTER
172. AC-00072145/Tupdos Liisous	AACCTANACACAMECTIC TO CALCORNICA STANDAURAN COCKET	
173. AC-HED4D417(Turdue merula	ANCONARCHICANCONCONCERCONCERCENCERCENT	ACTATACCERCE DITE
174. AC-00482070/Turbus rufinollis	NACCIONACIONACCONCERCENCENERADENADENACCONOT	A CENERAL CARCELE CERCENTER DE DE CARCELE ANALES EN CRESCE DE SECTEMENTE DE S
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176. AC-904393381 Starman soutre		
118. AC-EDI23142 Stormus pepulainus	A DARCH TECHNOLOGIA TAR TENTE TO MACCANE CREMANATAR CHICKER COMPACE TARRET TECHNOLOGIA TAR	SCOREAN TRAFACCOCCCCEANED
177. AC-32176301(Drunnus malaberlous		OCCURATE FORTAGE TACODOC TAXED
175. AC-ADMAING Accountinger trusts		ACCREENTERTARTACCECCCTARECOT
178. AC-EF404196(Acridotheres Custus	ETERSTATE CRITERIC CONTRACTOR OF CONTRACTOR CONTRACTOR CONTRACTOR FOR CONTRACTOR CONTRACTOR CONTRACTOR	Scolumber and the state of the second
180. 80-80944343TTOLineous erythronthysthus		SCCERATESTATESCERCE TRABEC
181. AC-HENZEDSG Arthoppys sipersje sipersje		BCCHHAATANTAN BANCCBCCCTARBOD
152. AC-AMANDATIC Primelle crileris		UCTIONAL CATAVATACCACTCAASCON
103. AC-00482545; frutelle bizalayers		SCTORCHTANDANOSTACCOCECERANCED
154. AC-02452553 Prinells fulvearens		OCTOORATADTADITACCOCCCTABLECT
108. AC-00482540) Prinella atropularia		SCTORTATANTABECECOCCCTARSCOT
104. AC-JF107025:Metamilia mineres		Scredates tabataccercetaacce
107. BC-00071996(Metacilla fiste		Occhina tan taketa coocce taancet
188. AC-02482203/Brianilla minerale		SCOREANTARTABETACCOCCCTANECOT
189. AC-077549140Motecille alto	ktatat: DATETTAL: 6:410	SCOREATERTAINTACCOCCULATION
190. AC-SQUELIGHTANTAGE godlevabil		OCCURATESTANDCAC DECCTARECE
191. AC-802021471Anthus compensate		Sccossage segaration and the second
102. AC-005717321Antitus prateries		SCARRANTARTAR SCARPSCCCTRARCOL
195. AC-OQUILINF Rother bodgemi		SCARGARTARTAGERACCOCCURATION
104. AC-00971200 Author cervine		SCARRANTARTAGOCACCOCCCCAASCO
196, RC-00401065/Anthus spinoletts		SCADUAN TAULAGOL CADCOC SURGER
194. AC-ODITISTIAnthus ridestens		SCASSAATASTASSCACESCCCTAASCC
197. EC-00071754(Boseycilla germulus		SCOULATANTANTAN TANAS CONTACTOR
108. AC-03202106 Hypothius aspeltnus	ANALACATION RECETATION TO A THE OFFICE OF A THE OFFICE OF A THE	OF FORA TO OF A CRASCES OF TAA STAT
198. AC-88262511 Fringilla coelens		Scenska Tas restractedeer cancer
100. AC-DENTLAGA) fringilla montifringilla	THE PERSON AND A THE PERSON AND A THE PARTY OF A TH	SCORGANTALT SEXTACODCCCTARSCOT
201. AC-07071829/Coocothraustes opconthraustes		SCORESTANTION TACCOCCULATION
202. AC-00451529/Carpolanus mikinilla		OCCURATE FASTA DECCERATE
203. BC-EDE471EL(Carpodecus thusa	THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE	OCCORATE SALES AND SALES AND COLUMN CONTRACTOR
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75. AC-WD4390301 Stuppus contra	- CHARLES CARD ANALY DESCRIPTION OF CARD CARD AND TAXABLE TAXABLE TAXABLE TAXABLE AND TAXABLE TAXAB	TAIT
TE. AC-EDI2T142(Dournal pagedence	TO THE COMPANY FROM CARDON FOR CARDON OF THE TROUBLE DECEMBER OF AND THE DECEMBER AND THE REAL PROPERTY OF A DECEMBER OF THE PERSON OF A DECEMBER	10011
TT. BC-70174301/Deurnus melaborious	DO TANDO DE LA MARO DE ESCARCO ANES EN DE TANTANAS MACONANES DA CAMUNANAS MACONANES DE CAMUNANAS DE COMPANYA CAMUNANAS DE CAMUN	Die alle
TE. AC-ADVAELDE Acculations triatis	TO THAT THE ANALY DATE TAX TANDED TO TAX TAXABLE INCLUSION TO AN OTHER ACCOUNTS AND TAXABLE TO A TAXABATTER TO A	104-7
19. AC-EFidil901Acridotheres fusous	TO TRATE OR CANAL TRANSPORT OF THE CARDER OF THE TRANSPORT OF CARDE TRANSPORT OF THE ARCON OF THE TRANSPORT OF THE TRANSPORT	20.027
81. AZ-82442837/Dinesus szythzozópotkos	te feite and anne fanne far berefente te ferfangen beite eine freite an efter beite eine tente tet erne tet fer	CAUET
st. ad-mesisistide action of a signification and a signification of the second state o	TO DESCRIPTION AND DESCRIPTION OF THE DESCRIPTION OF THE ADDRESS OF THE DESCRIPTION OF TH	LUCT
82. AC-ADIGIUZ/Primelle collects	TO THE RECEIPTION OF THE OWNER OF THE TO THE OWNER OF THE TAXANT OF THE TAXANT OF THE TAXANT OF THE TAXANT OF THE	-
85. AC-90462545(Princils himelayens	TO THE RECORD AND A DESCRIPTION OF THE RECORD OF THE RECOR	CANET !!
84. AC-GQ482583:Frunalla folyeataus	THE AT THE ANAL DATE CAN TREE TO THE TAXABLE AT AN ITS AN ITS TO BE SECOND. THE ATACHTE ATAC	CAST
85. AC-00402540/Prinells strogularis	THE ALL CARE AND TANK TAKEN AND COMMENCE IN TAKENAL AND AND TAKEN AND AND TAKEN AND TAKEN AND TAKEN	1. 27
bs. AC-27107525180vactils circres	THE TAX AND AND AND AN ADDRESS OF TAXABLE IN CASE IN ANTICAST OF A DOT AND THE ADDRESS OF TAXABLE IN O TAXABLE IN TAXABLE	IANE.
st. SC-GDSTISES/Notacilla flava	TO TRATE OR I AND A DESCRIPTION OF THE REAL OF TRADE OR OTHER DESCRIPTION OF A DESCRIPTION OF	-
NT. AC-OQUILIDS/Hotacille mixtenia	In That was been been the second over the same the chart of a saturate the the track of the second of the second	
es, ac-sylfationnellis also	TO BEATE ONE AND DAMAGE DAMAGE AND COMMANDE DE CAMMANDE DAMAGE DAMAGE DA AND DE AND DE AND DE DE CAMMANDE DE CE	EANE.
90. AC-004013411Anthus gndlewskii	TO A COMPANY AND A COMPANY AND COMPANY AND COMPANY AND CAUGH TAXAN ATAN AT A COMPANY AND COMPANY AND TAXAN	
st. ac-sylbils?iAnthus congestris	TO BE AND AND AND DATES AND AND TO BE AND A TANK AND	24.127
b2. AC-CONTINELIANTING pretervals	THE AT LEAST AND AND TAKEN AND TAKEN AND THE ADDRESS OF CAMPUTAL ADDRESS OF A DECK OF A DECK OF ADDRESS OF ADDRE	tunt :
92. BC-00481549(Author hodgeon)	TO TAKE OR AND AND AND AND CARCENDARY IN TANKA BACKARD TAKANG	TAUT.
94, AC-GUSTLINGIAntinus carvinus	THE ARCHAUSE AND DESCRATCED AND CONTRACTOR AND A RANK TAKEN TO AN AT A RANK TO A CONTRACT OF A RANK TAKEN AND A	TAUT.
95. AC-924815451Anthus spinnletts	The state of the	11.11
96. AC-00481358:Retinue ribeatane	To a sub-change and the sub-construction of the sub-charge farmer of the sub-state of the sub-sub-sub-sub-sub-sub-sub-sub-sub-sub-	TRAT.
et. ac-distities Boscycille germine	The state was from the converse of the state of the same to save the state was a state of the st	1.2 1 2.1
St. AC-202312130) Represitor ampeliance	AT ANY CAR TARK THE CARCELLAR COMPLETE CONTRACTOR CARD, IN THE PROPERTY AND CARD, THE PROPERTY OF THE	-
99. AC-09D62511) Fringilla coelette	TO AT THE REAL PROPERTY OF A COMMUNICATION OF TAXABLE IN CASE OF A DOTATION  OF A DOTAT	1.11
00. AC-CONTIGUE/Fringille montifringille	TO THE REPORT AND THE CONSTRUCTOR DATE OF TAXABLE IN CAMPAGE IN CAMPAGE IN CONSTRUCT OF CONSTRUCT OF TAXABLE PROVE THAT AND	1
NL. AC-ONVILE29) Connothemastes opportagemetes	THE AT COMPANY AND DESCRIPTION OF THE DESCRIPTION O	1.1
02. AC-SQ401529/Carpotenus exhintilla	That is not had no the first the factor is not it is that it is not the second state it is the second state it is	CASE !
09. AC-EDN477011 Carpodecus thurs	The second	1.11

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175. AC-9C439338/Sturnus contse	ANTANACI DISCATOR COCCACACITATIONAL COCCAC	TAN TE CENTRE - TAX CAN STERE A TAX AT AN TAX AT ANALY CROCKED OF THE CASE
174, AC-0323542 Bournus pegiderum	AUTAGACCTAGECATOTTCTCCCCTACACCTAGEGEGEGEGECTCCT	THATE TALESS TATCAS TITAT CACASES CATASES TAS AT ANALY CONTRACTOR SECOND
177, AC-JQ176911/9timus malabarine	ANTRIACE FORCES ETC. COOPERCE TRACAMERATE SEC.	IN THE DAMAGE OF THE RATE OF THE CALCULATION OF THE COURSE
178. AC-ANGELING Accidentiana triatia	ANTANAL TANCENT CONCLETE ACARCENACED INTERIOR	TANDER DOORDE TADEANTER AT THE DATA OF AN ANTAL ANALY CONTRACT OF THE ATTACK
178. AC-EF4841961Accidotheins fuecia	ANDANACE DISCORDE DE COCEDERCE DESCRONTATES CO	CAN TO CRAMMER TATE AND TREAT TATE AND AN CAN CAN CAN BE AND CREEKE CONCEPTIONS.
180. AC-8244283712Loanum arythrostynchus	KETKERCCTARCORDONNONCOCTOCKCETERCCERCECTIC	ar heat ar a mar a star a hand the second of the
181. AC-HERDROWN (Arthoppys signoups signate)s	ENTRESCEDED TATE DE LE CACACCERSE DESERTE CECEP	TATCE SERVICES TO A TRACTICE STORE AND A TRACT TANK CREATER SECTOR FOR THE SECTOR SECTOR
182. AC-AD943102/Weinsils collerss	ANDANACCONSCRETE DE LE CALANALDAN CONTRE CECCE	TAT TEAMS AND A TO AND A AN AN AN ANALY AND AN ANALY AND
101. AC-OQUEZION Primella himalayana	AN TANK COMPARED DE LOCOTORNO DANCENTA CONTA DE	CAN TO CAN FINISH AND THE CAN CAN CAN CAN TAKE A TANKAR COOC TO COOL AND CAN
184. AC-Ophilter/Transils fulrements	AUTAUAD CTUBCCATTERCECCO DECACCEAUCTORESCECCE	INTERNATION TO A CONTRACTOR AND A CANTAGE AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACT AND A
188. RC-00482940:Francila stropularis	ANTANAZOTANOCAZOTZCZCZCZECZZE ZANCZONZAZOZCZ	THAT COTAGONA DONA TO AND THE ATCANONA DONA DATA AND COCCUPATIONS
188. AD-37955025(Metachlis Simeres	AUTOMACC TUGCHATTER COCCUTACACC TAUCOUSTABORCEST	MATE CARE TO MATE AN OTHER THE AND A CARE AND AN ADDRESS TO THE TO THE ADDRESS TO THE
187. AC-00971905(Notacilla fiera	ANTERNETARCANTER COCTACACCENERSCONTARCECEN	IN THE TANK DONATOR CONTACT AND A CAREAR AND A CAREAR AND A CONTACT
188. AC-024822031Netactille citracie	AUTORACCIESCAATTEC COCTACACCIESCIESTATCECT	THATE THE STOCKATCHAST IN CATTACHASTA STATE AND A CATALASCE TO THE STOCKAST
188. AC-RY754516(Motecilla sibe	ANTOINCE THE CARTERS COOTACHED THE CONTRACTORY	INA POCTA CATACANA CANCER AND A CANCER AND A CANCER AND A CATACACANA CONCERNESS OF A CANCER
190. AC-024113411Anthus gotlevekss	ANTENACCOMPANY STORES CONTACT AND TANK TO AN A CONTACT OF THE	TANTECTATUTATICANCESCATCATCATCATCATCATCATAAAACCCCCCCCCCCC
191. AC-87251147(Anthur competizia	ANTOINCE TABLIANT CETE COOTACHTO THE COOTACT OF	and there has no to the second second to the second s
192. AC-CUTTITIZIANDAIN pestanaia	CATTOR CORNERS OF CONTRACTORS CONTRACTORS CON	ТАТССТВОЕСКАТСКАТТКАТТСКТСКСКАТАКТАКСКТАНАКСТСССТСССТСТСК)
193. BC-02481349 Bethus bidgetni.	COTTONE INSTANT INCIDE TO COMPARE TO SECRETARIZE CO	and a manufactor of the state o
194. AC-00971230(Anthus esevious	CHILDRES TAN CARTERS SCC. TATACCTARE SARATER C. S.	TATOO MARCENATO ANTERNATORA CALANCARCAN CARCATANA COCCORCECTORE
195. AC-02401345(Annhus spinoletts	ENTENAS: DANCANECESCO DE LA COLLAGO DOMANTE CAR	DY CONCERNENT OF A CALE AND A CAL
196. AC-02481358:Anthus rubwarens	CHIERSCHARCHARCESCHOLDCHARCHARCHARCECCH	TATCCINATCONTCANTICATION CALCANCENCE CANCELANA CONCERCE CONTENTS
197, AC-00911164/Boneycilla gezoulus	ANTANACCIANCIATESCICACIACIAN CANNERS CANNERS CONT	TAT CEREME TATION IN AND AN AN AN AN AND AN AN AN AND AN AN AND AND
198. AC-30252196 Hypnonibus appalsnus	EXTAGAT: TAX: TAX: TTTT: ACT: CACCINE: TAX: TCAT	TAT TANKAN TAY IN TO AT A MARKAN MARKAN ADAMA STATE
199. AC-M92625111Fringille coelebe	AND AND AND CARE AND CARE AND AND CHICK THE AND CHICK TO AND CHICK TO AND CHICK THE AN	I AN TOO THE FRANCE HAVE THE AT CHICAN THAN TO AN A CARD AND CHICCHICCE THE COUNT OF A TABLE
300. AC-00111404(Fringilla montifringilla	AUTAGACCTORCAAT CTCTCACTCACCTARCESATATCTCTT	TAN TECTATENDEN NET CANET TEATENEEN ALS TAN TANÀNA CONCERNEE TATENE
101. AC-80971829(Coccottrauetes cocnottrauetes	ANTANACE PRICANE CENER COORDINATED IN THE RECEIPTING CENER	ng pental a matera is apartama de la strat
102. AC-OQUIIIIN/Carpodamus subizilla	Ratellier The Alforne Second chief and hat he fer the	TANY CONTRACTOR CAN CARE TO CARE A CARE A TAN CATALOR COCCORD BUTCHES
203. BC-ED(47101) Carpodacus thurs	ANTENACE COCANECE COCEACE COMPANY COMPANY CON	CARTON DE REALEMANTE DA CARTON CARTANA CARTANA A CONTRA CONTRA CONTRA CONTRA CONTRA CONTRA CONTRA CONTRA CONTRA
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50x# 505	Africana	Selected genetic code Vedeloste Mitochundral

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175. AC-904393381 Prormat somers	008207	11 D	11 1	001230	110	2-211-1	6418-55	010021		00:20L	ICC. INT	Lecces	1-14	61 B	acce	occes.	COCCUMP.	10:02
118. AC-EDI23142 Storman pagedeines	COATCO	11 12	-14-1	de <b>ra</b> se	CREATE:	a-astri	LABOR	DERSTR	<b>LEACK</b>	20-75A	L-BOTAT	Accest	CTAN	citese	ACC.	cecca.	a com	10.000
177. AC-72174303/Prannus melaborious	212201	0 1	1.1	ce ale	dete	A STOC	6113 C K		I DACK	88C 18K	L-LOTOF	Leccce.	1.115	di id	lice:	cece.	e e ce e e	10:05
TTE. AC-AUDIGING Accountions trustle	CONTON	11 112	TACE	fe <b>ta</b> se	dette	1.1.1.1.1.1	auci	DOGOTA	BEARCE	86C 12A	CANTAT	Acceces	CCA.	chase	March)	Licees.	escent	AGTOR
179. AC-EFeb4196 Angliotheone fuence	CONTER	11 11	CIACI	totaise	en cana	1.111	11110	000028	<b>BALLCE</b>	ACTOR	CAUTAL	ACCCCCC	SC240	c204c	LLCCD	inceca	COC 280	Locom
185. AC-3044243T13Loasus arythrophysichus	COLUMN T	*****	1.1	i- ii-	dede		(11) C		COUL-A		i - HERE	al celec	22 <b>1</b> 1 1		LLC D	Licces	a de se	10:00
181. AC-HESISOSULethoppys sigurate sigurate	COASC!	12 14	cii d	ic faite	fice to	1 110	6113:00	STATE	1 ILLICA	89C21A	i cantot	Accesses	cc 🖬	cc in	ii cen	ii ti	raccas	10.00
182. AC-AMMATIN2/Fromalle collects	reese	1.1	TATE	actase.	a contes	1 11		aus at a	I I I ATA	STTTER.	-ANTAT	A. CCCCC	1 1 H	CLAR	4	AUCACA	In the	10000
183, AC-00452545; Francils himeleyess	ECC C	nich:	14.1	ic aid	Lice et	ACCURATE	AAS CA	BEASTA	BALLAC A	00.1UA	ABEAT	A. ccccc	ee 14	cci id	Accel	Loca ca	10.200	AGCC
154. AC-GQ451542/Franelle fulveatets	C CELEC	11 1		AC 288C	All control	ACCUSE	<b>LANCE</b>	BEADTS.	UEAACA	ASTICA	ATATAT	Account	COLAD	că i i c	u.co	ABCCC.	edecia	15 - C -
188. &C-02482840(Prinells stropularis	C	11:11	c Fort	ic a c	a contra	(Arciitte)	ELLIS C E			ACT DO	L-BREAK	deceses	CC 148	că d	Licon)	acces.	10 114	10:01
154. AC-JUSTIDIUSHALLIA GLINING	208307	11 1	che ch	ie sie	12-12-1		LASS CK		SCA-A	35525A	Accusat		2-243		uce)	Locos .		10:20
187. AC-00071995(Mctacilla fiere	0.000000	11 1	d ce	ic a c	11.11	1-1-12	1453-5	a thirth	<b>COLO</b>		ICC.	Leccos	1-11	cont	LACC 1	Locera	cecca.	10-11
147. AC-00482205/Hotacilla mitracia	COATCO		cicci	octasc	12-12-2		LALCE		SCACE.	00-75A	CC. T. T. T.	Acceler	1. 1.1		acc.	Liceca.	reces	10:21
189, AC-WY/SaEL6/Hutaclile alto	COMPCT	10 E	cicci	ic i c	10.10	1110	111311	1111-1	- circi	ae: 221	iccess:	Accesed	1.11	cel is	40.0	Loceca.	races e	10 23
190. AC-SQUELING Anthon gudlewskii	CONTRA	11 b	chi ch		ALCO DO	1-1220	auci	DEADCH.	BEFACE	86C 10A	CAUTAT	Access	1. 14	100	Acct	i ci ci	escent	
19L. AC-092522471Annius compestils	CONTEN	11.17	ctet	ic sand	111	1-122	tab th	0033-8	SOTA CA	00:10x	CANTON	Accocco	i dii	02112	11 m	inceca	Tecces	10-10
192. AC-00971732:Anthia grivienzia	COMPCT PROPERTY	111-1	dicci	ic take	A COLCO	1-111	(112 04)				i tutut	Leccose	1-115	cellit	14.5.5	Licera	ticese	10-15
199. AC-OQUILIN/HUANDINE biologeonia	CONTRACT.	10.1	4 11	хота с	a conce	1.00	111211	10,101	ISTACA	10 C 11 A	i tetet	Accestes	t tai	cci i t	uice e	Locota	encen e	10.1
194. AC-6097L299(Acthus cervisus	CONTON	11 1	clean	ACTR C		A AAT	LABOR		<b>LICACA</b>	a a c t a k	ILTOTAT	Accesed	1.11		4	i de la		10-12
195. AC-00401345 Annual spinoletts	CC4 C	<b>1</b> 1 1	det	LC ALC	a conce	3.10	ALC: N	PEARSC	1023.3	00C1UA	TOTAL	Accest	1 - 1AB	ocu ic	ace o	Lacoca.	ences a	10 15
198. AC-02451355 Anthus submetens	CC 8 8 1	11-1-	cicci		ALCOLO	ACAUTC	11110	BRADE :	DOTA-1	00-10A	ACCUTAT	Access	1. 11	cc	ulce 1	A COLD	cuccus.	15:32
197. AC-00571754(Rospycilla garrolos	0.0000	11:17	CTACT.	cc 10 10	care to a	1 1 1 1 1 1	111,62	FITTER.	POTA I	454.924	LCOTT	ACCC260	CC AN	3552	111	0000	10.114	LOCCZ
107. AC-09032100)Sypcontaux ampairmum	228727	111-11	1.1	Se Base	1.11	3-1511	LALIE	COACTS.	COLL-L		ACCUTAT	Accesse	CC 24.5	222 X 12.	4.0			adtes
199. BC-H9D62511: Fringills coelebs	0.000	111-1-	1111	LC 1 LC	tice et	1-1921	(11)-1			deajor.	i-terar	a ccccc	1-110	ec in	ut f	acces.	111	Local
101. AC-UNTI404(Pringilla montifringilla	COLC:	11:11:	efect	ic sist	ATC: TC	a-sata)		COLOTA	SSTACK	CONTON.	ACCOUNTS OF	ATCCCCC	1.14	<b>1</b> 1 13	acer.	acces.	-0-155	40.00
201. AC-00071829/Coocothraustes cocothraustes	0.000	11 I	- 11-1	ic line	1.11		11100	I BAREC	I I I I I	astra.	LATEL	Accordes	1771	CC III I	40.0	incees.	a cas	ABCC 1
101. AC-004015200 Carpodarus subscilla	CONTRACT	11 D	1.1	AC SALC	erere	1-121	uuci	DISA DEA	BRTACK	ACT TO A	<b>LATER</b>	Arceace	1.2500		ucci)	incees.	e i e più	AG - A -
100. AC-EDH47701:Corpodecus thurs	CONTER	111 1	that t	ec sanc	neetee	1 101	ERSO L	ootst:	<b>BOACE</b>	ACTOR .	COOTAT	Accesco	1.11	00000	LL C C C	fice ca	100000	10-12
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175. AC-90439330: Sturman sontes	BACKAR ATTAK BARRET BERKAR TA TAK TAK TAK BARCET BARATAK BARCET ANA ATAK BARCET ATAK BARATAK BARTAK BARTAK BARTAK BARTAK
178. AC-ED121542 Skuttur pegedetus	FOR AN TEACON COMPANY OF THE DESIGN COMPANY OF THE TAX TO COMPANY AND AND AND THE COMPANY OF THE TAX
177. AC-321743011 Protour melaborious	D
UTL. AC-ADDOX100 Accountions totation	The case affects concerning the plane first first and construction of the second state
178. AC-EFeb41901Acrigotheres fuents	The case of the state of the state of the part of the part of the state of the stat
185. 80-8244343710Loasta erythrothyschos	To partners on other state for for the faster out of a fast of the state of the same is state if the faster for
181. AC-H9829090 Bethoppys signumbs signumbs	In the start of a start of a start for the start of the start of the start of the start and the start of the
15J. AC-AMMATINJ/Frumalla cullaris	B. ANTIGRATION CONTROLS IN THE TAX TAX TAXTACTORS
103. AC-00462545: Francila hizalayeta	The CANTER POLY DE AND
154. AC-G2452543 Frunella fulreatena	The cases of the same subsection the traction of the same to the task at the same of the same same same same same same same sam
188. ac-00482540 Prinells stropularis	The cantral concentration factor if the fact concentration in the cantral of the factor of the facto
154. AC-JUSTIDIONALLILS CLIMPSA	To that shad second to construct a factor of the part of the part of the state of the construct of the state
187. BC-00871998/Mitacills flava	FOR CALL AND A DESCRIPTION OF A DESCRIPT
188. AC-00482215(Hotacilla citracia	TA CONSTRAINT CONSISTER A MARCENE CONSTRAINT CONSTRAINT AND CAME AT A CAME AND CAME AND THE CAME
189. AC-HY7545161Hutatills slbs	Becchi anarteseenti senat ben fasti contantese sano i den anno atte contantant en attacting for in the
190. AC-02401341:Anthus gotlevebil	To CANTATAN CONCEPT MAN THE TATA CONTRACT TATAN CARE CARE AND ATTACK TATANA AND ATTACK THE TATANA
191. AC-072521471Auritus competitie	In the faith and the state for fight to that at our country and the second state of the faith of
102. AC-DUSTITIZIANIBUS gradatate	In the start concepts came the part Barant came
199. AC-OQ4813491Author hodgeon;	The case and a party season of the state of the party of the season of the
194. AC-00371210(Anthus carvinus	BUCKET ATTAC CONCEPTED AND THE TART CONCEPTED ATTAC STATE ATTAC AT
198. AC-004813451Antine spinoletts	There are a fund composition of a state for the first composition of the area after second a family the state for the family of
196. AC-004513551Authus subestets	To TAL AVANT COMOL TO CAME THE TAXE CONTRATANT COMO COMO ATAC ATAC ATAC ATAC ATAC ATAC ATAC ATA
197. AC-00571754(Rosbycilla gatrulus	The subject of confidence and the factor fractions occording to the subject of th
198. AC-09282194(Rypointing ampeliance	TAT TAT ATOM STRATES CARAGE THE TROTT OF TAXANT SHATCHES AT A TAR STREET OF ANALYSIS AT A TAR TAR TO THE TAR TO THE TAR
199. AC-HRD62911 Fringtlis coelene	The CAPTALLY CONSISTS CONTACT THAT AND CONTACT AND CONTACT AND A CALL AND CONTACT AND A CALL AND THE CALL AND CONTACT AND CALL AN
100. AC-GHY1404/Pringilla monisfringilla	TO COMPARE AND CONTRACT COMMANDER OF TAXABLE CONTRACTORS CONTRACTORS AND CARDON AND AND AND AND AND AND AND AND AND AN
201. AC-00071825/Coccothraustes codoothraustes	The partners conception and the partner conception of the state and the mathematical partners in the partner of the second
J02. AC-SQMS1529/Carpolenus subscille	The CARTAGON DESCRIPTION AND THE DARK OF THE TAKE CARE COMPANY AND AND CARE AND
103. &C-EDI47711/Carpodecus thurs	The case and a fragment of the fact that the forest of the same affect in an and the fact of the fact

tperces/Addrey	
104. 2C-004824081Erenopealtzia songolica	- B. TATACCTARTETT I HANCATANCE INTRACTOR
205. AC-004820531Leurostinte semprinola	CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR OF A CONTRACTOR AND A CONT
206. AC-004020491Cencostinte Boandti	STITTE OF CATALOR FROM A STATE OF CATALOR OF
107. AC-ED465259/Bhomburgine obsolete	
208. &C-OQ401479/Linaris flavirosizis	- CC TATA CC TAAT TO C CO CAT HAR CC HINA TA I TA I CA CCT CC TAA I CC
208, AC-OQ451455:Literis catesbine	TO BATA TO BATATA CONTRACTOR OF CONTRACTOR OF CONTRACTOR C
210. RC-OUFTL908/Gomin-Durvirontra	
211, AC-H01062009/Carduelis carduelis	TANK THE RECEIPTION OF THE REC
212. AC-00462639(Berinus pusilius	FILE CARTER OF A THE CONTRACT CONTRACT CONTRACT CONTRACT
213. AC-02451485: Spinus spinus	BIG CLARK TALENCE CALCULATION
214. BC-225TaT76/Emberiza melanocephala	
215. AC-BCATEILI: faberisa bruninepa	
216. AC-50571847(Enderning calandra	TATUT AND A TATUTA
217. AC-SP492130 Endwrine furste	
318. AC-HQ481747:Emberian cin	
118. AC-SQ481786 Digarize godievekii	
220. AC-09975476(Baberlas stewart)	
321. AC-OQULIT72/Experise learninghalas	TATACC CARTACC CARTACCA
222. AC-HESOCITS/Amberian stainlata	
221. AC-GUYTLET4 Brownian schwarkelus	
124. AC-DF919796 Emberica mirecla	
323. AC-DISTINGING puttie	The state of the s
224. RC-00401010/Emberine rutils	
227, AC-0926262217asser dimentions	THAT I THE REAL PROPERTY AND A
1228. AC-ME747304(Fasser mosbitions	THE START OF A DESCRIPTION OF A DESCRIPT
229, AC-329570221/Peaser montanus	
230. AC-000023960 Perzonia permuta	
131. AC-52445515:Carporpins brachydactyla	
252, SC-ODe62176/Rontitringills mivalis	
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Ster 207 - Ster (	win gegen Selected genetic code: Venetions Mitochandra

16. AC-RCASHBBBI Sturman contra	AND TAXABLE TO BE THE REPORT OF AN ADDRESS OF ADDRESS TO THE REPORT OF THE
18. AC-EDI21142 Sturnus peptierus	
11. AC-JULTENII(Busines melaborines	
TE. AC-ADMEDICACEDBINATION TOLETLE	NATE OF AN ACCOUNT OF THE DATE OF A DESCRIPTION OF A DESC
19. AC-EF404196/Acridotherns Eusten	ALC FALLS C. B. T. T. B.
to, ac-ad44263110Lianus erythmatignition	
11. AC-HER2SOFFILethoppys signouts signatures	ALC THAT I THE LEFT THE ALC THE ADDRESS OF A DATA ON THE DATA OF A
M. AC-AMMAINI/Franklis colleris	SALE THAT A THE ATT OTHER TO AND COMMAND CARD. AND CARD. CAR
03. AC-02452545; Francila himalaymia	ARCONACTOR AND
14. AC-02452562/Frumella fulrearess	ALCONG A DEAL AND MENAL OF CONTRACTORS OF THE DATA ON A CONTRACT OF THE ARCONG AND AND AND A CONTRACT OF A DEAL OF A DEAL AND A
08. AC-00002540(Princila atropilaria	AN CAMPAGE AND AND THE ACCOUNT AND A CONTRACT OF CAMPACING CONTRACT OF CAMPACING AND
M. AC-20107125/Metacilla dinates	AND TAKEN TO AND THE DATE THE REAL PRODUCTION OF THE PROPERTY AND THE TAKEN TO THE TAKEN TO AND THE ADDRESS OF THE TAKEN TO AND THE ADDRESS OF THE TAKEN TO AND THE TAKEN THE TAKEN THE TAKEN TO AND THE TAKEN THE TAKEN TO AND THE TAKEN TO AND THE TAKEN TO AND THE TAKEN TAKEN THE TAKEN THE TAKEN TAKEN THE TAKEN
17. BC-00071996(Mitaclils flave	AND THE R. C. AND THE RECEIPTION OF A DESCRIPTION OF A DE
M. AC-00452211(Brightlin sitzenia	AN COMPANY OF ANY OTHER COMPANY AND
te, AC-80754EL6Hertecille elte	the first is the second s
NI. AC-SQ401241:Anthor yodlevahil	MARY & MARK THE REFERENCE OF A DESCRIPTION OF A DESCRIPTI
9L. BC-802021471Anthus competitie	NACE & RACECE CALLER CONCERNMENT OF THE REPORT OF THE RECEIPTION O
N2. 85-00971732(Anthia guateriala	
HE. AC-ODMILINE Author biogeoni	AND DE MARKET TE AND THE AND THE AND THE AND
N. AC-0071230(Actinus carylinus	AND THE S TO ATT THE OUT OF A DESCRIPTION OF A DESCRIPTIO
98, AC-ODATIJ45: Antitus spinoletta	ARCOLARIA CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR
N. AC-02451335 Author submotions	NACE CARACTER AND THE ACCOUNT AND A DECAMPANESS OF THE COART AND THE DESCRIPTION OF THE DECAMPANE THE STATE OF THE
97. AC-00571754(Rospycille germilus	AND DEALER THE DE CONTRACTOR CONTRACTOR CONTRACTOR AND
of. AC-03033380 Rypromitius ampelianus	AND TAKE & DO TO THE ACCOUNT AND A CONTRACTOR CONTRACTOR OF TAKE AND A CONTRACT THE TAKE OF TAKE
99. BC-M9262511 Fringills coelene	MARY & MANA SACTOR TOTOLOGICAL AND DAMAGANA CONTRACTATION AND AND AND AND AND AND AND AND AND AN
00. AC-02071404(Pringilla montifringilla	NATE & AN ATT A CALL AND
01. AC-00071525:Chocothiswistes cochothiswistes	NATE OF A DECEMBER OF THE DESCRIPTION OF A DECEMBER OF A D
02. AC-SQ401529/Carpodenus subsculle	AN COMMENCE OF ANY TO AN OCCUPATION OF AN ACCOUNT OF A COMPANY OF A CO
03. AC-EDH477011/Carpodacus thurs	

Species/Minev	a an an an an an a an an annan an a an an	
175. AC-HCal9538:Sturnus contae	ANTROCANN SCOOL SATTON STATING CORE SAND ACCESSION DE SACT	Rental von Brevenski under Britking anter Berter Briter Berter
174. AC-629255421Dournue pegolierum	ANTACCANACTCCCCTUTTCETTONTCCCTACTANTCACTSCALTACTACTACT	contanterer recounter taberar tabera the cases of the case of
177. BC-J2176901(Stimus malabarings	AND A CANNER COOL TO PROVIDE TATCED IN TANDANCES IN CANTACTACIACI	constant account to the the cale to a statute to the the statute
178. AC-ANNELING Accident/server trigtle	AND A CANADA STOCCOMPTON AND A CANADA CAN BE AND A CANADA	CONTRACTOR CONTRACTOR DE LA CAMPACITA CANTACIA CONTRACTOR
175. AC-EE4841961Accidotheins funnin	ANTROCANACCECCCTATECUTTERATORIACEANTCRCTACESCATERCE	CONTRACTOR CONTRACTOR STATEMENT AND A CONTRACTOR CONTRACTOR
100. AC-8244263712Loseus arythrophysikus	MATACCAMACACCECTATECETEMECTATICS AND CALLED CONTROLS OF CONTROLS	ACTATION TO CONSTRUCT AND DECEMBER TO CATEGORIE AND AND THE CON-
181. &C-HORDBODH-Dethoppin sipsonis sipataja	BATATCARROCCI CTTTTTCCCTCCARCORACCARCOCRETCTCCCCC	construction contraction and a second statements and the second second second second second second second second
182. AC-ADD43102 Fernalla collaria	NATACCASACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	tente far fare fatt frierier statt fer after fer fattalt eite
189. AC-OQUE2545: Princils himsisysts	ANTICONNECTOR CONTRACTOR	BE EN SECTIMON DE LE COLOR DE LA TENECA DE LE CANCALLE COL
104. AC-Opid2503/Frimella fulvescens	AATACCAASCOCCUTATICSTCESSCCCUTATIAATEACASCASTCCCCCCCCCCCCCCCCCCCCCCCCCCCC	CONTRACCONTRACTOR CONCERNMENT CACENTAC CONTRACTOR
108. AC-00402940/Frunella stropularia	AND ACCRAACCOCCULATED IS CONTROL TRANSFACANCESS COLORISE	CONTROLNED CONTROL CONT
154. AD-JF157025:Metachila sizeres	MATACCRARCCCCRCTATINGTICS AND COMPACT COMPLEXING COMPLEXING	NOT CE CE COMPTACE AND ENCONCATOR CHATACE COT CACANATICE
187. 2C-00971965/Hotacille flave	ASTATCAL COCCACTACTORS ISATCHINE CAATCHCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	A THE STREET AT AN AND SO CHARTER AND SO THE AND SO THE AND CONT
108. AC-02402203/Metantile citracia	HATATCHARCOCCUCTOTESTCOTTONTCHOTOCTANTCHCCCCCASTCOTACTOC	ACTOTOTACCASTACTACTACTACTACTACAATACTCCTCACACACCE
188. AC-HV754516(Hotecille sibe	an fa fonna occule fa fio arresta fonde en fan fonde an forda e factier	A TETETETE ANTRE ANTRE THE CONTRACT AND A CONTRACT AND A CONTRACT OF
190. AC-SQ491341:Anthua gutlevekii	AN INCOME TO CONTRACT OF A DESCRIPTION O	ACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR
191. AC-89292147(Anthur corportzia	MATRICEASE TOOL THE CARE SATE OF COMPANY AND SEAR TO THE SAC	ACTIFIC CONTROLS INCOMENTATION AND A CONTROLS IN A CARGA CONTROL OF
192. AC-CONTITIZIAnthus postanels	ANTAPERANCECCO INTERCENT CONTENTANCE CONTACTNEED	ter ter ter ber batte tele rarasarat analas frebaratar de
199. AC-00441349-Autitus bodgeoni	ANTICCARCOCCECTATECERCERATICESTCCARCECTICANTS CONTROLS CONTROLS	A CECENERAL DESCRIPTION OF THE REAL PROPERTY OF
104. AC-02371230 Arthus convinue	NATATCAARCOCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ACTOR STREETACTAGE ASCENSION TACATAC CONTACTACE
195. AC-OQUALINE Anthus spinoletts	ANTICONSCIONCE INTERCEDUCE SATISFIC FARCECOCANTACTACTICS	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR
108. AC-02401000 Authus subsector	ANTACCANACCCCCCTUTTERCCUTCCUTCCTANTIACCCCUTCCUTCCUTCCUTCCUTCCUTCCUTCCUTCCUTC	ATTERCTICATE AND CONTRACT AND A CONT
197, RC-00571764(Buskyrille gaztulus	AND AND ANALYCCCC DEET COENTCATE AND DUCKANERS DOLLARS CONTACTION.	CETATO ENTRE CARTACTERIC OCTOCIONE ACANTANENO E CARCONE
108. AC-39252136 Nypossibus appaliants	BATACCARACKCCCCTATTCUTUTUATCRATTATTACTCCCUTTCTACTACT	CORCECTORORANTE FARE RECEASE FATTACCATES TO CHORECERS
199. BC-09242511(Fringilla coeleba	HATSCHARECCCCC TATTONESSESSESSESSESSESSESSESSESSESSESSESSESS	CORATE STATES AND TO SHE ANNOUNT AND STATES AND
200. AC-00171404(Fringills montifringills	ANTACONACCCCCTATICSTATISTICSTCCTANTACTSCASTACTCCTCT	TOTATOOO SCORECTED TERCESCALERATE CARTECT CACALERCES
201. AC-60W71839/Coccottrauetes coccottrauetes	ANTICCARRECCCCCCTATIONAL SATERS CITANTACACOCARTS CTCCTACT	Sofere et accastic the inclassic transference in the the second
192. AC-SQ4TININ/Corpodence relativille	ANTACCAMACCCCCCTATECAL CONTRACTATION DECALTS CALLER TACTATION	CONTRACTOR AND CONTRACTOR AND AND AND A CONTRACTOR AND A C
209. &C-EDE477911-Corpodatus thura	KATACCARROCCCCCCATERICCCATCROTCCCARTCRCTCRATCRCTCTCCCCC	TO TTO TO TOO AND CONTRACTION TO TO TRACKS CONTRACTOR
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204. AC-00462078 Eremografitris sungelide	tente and the second	0110-10-1
208. AC-ODINICALINATIONS NUMBERED	CONTENT OF CONCEASE AND AT CONTRACT BARANCE AND CARDEN TO CARDAN THE ACCOUNT AT A COURSE AND A COURSE	222402
204. AC-00402040(Gescostinte brandt)	THE COMPANY OF THE REPAIR OF THE ARC OF THE ARC AND AND A DESCRIPTION OF THE ARC AND A DESCRIPTION OF T	BEAG TOO
207. AC-#2463339 Rhodospins costlets	TO A TO A TANKA TO A TANKA TO A TANKA TANKA A A A A A A A A A A A A A A A A A A	SEAD CTRO
208. AC-OQUELETHILLINGTIA FLAVINGETTIA	to be a first of the first of the second state of the second state of the first state of the first state of the second state of the	NUMBER OF CASE
208. 80-00401455:Lineria manadina	tent tett fre bertan it en er bei er ber berten bester berten bester bester berten ber berten berten berten ber	10.0
210. AC-00071900/Logia-ourviriette	THE REPORT OF A DESCRIPTION OF THE OFFICE AND DESCRIPTION OF AND DESCRIPTION OF THE OFFICE AND DESCRIPTION OFFICE AND DESCRIP	BEADCORT
III. AC-MORIDER/Candualia candualia	TOAT AT THE TO THE TAX AT THE CARE AT A SAME AND	110 <b>1</b>
212. RC-00462639(Berinis postline	CORPORTE TO TO TANTANCE TO TATO REAL AND CONTRACTORS AND THAT AND TO COOL TATATATE TO CONTRACT	10040-100
313. AC-GQ481485/Sponue episue	TO RECEIPT OF COMPACE AND AND AND AND AND AND AND THE PROPERTY AND AND THE ADDRESS OF THE ADDRESS AND ADDRE	5440 TT
214. AC-JQ174776 Emberiza melahotephala	TO A TO BE THE REPAIR AND A TO A T	SHARCE ST
215. AC-80433313 Debening bruthings	TONE CONTRACTOR DE CARACTER CONTRACTOR CONTRA	Example of
214. AC-00871847/Reserva calandra	to be the first for the first of the first o	0810-01
117. AC-IP499110 Briwrian Suists	ten a transfer and an	STARCES .
218. AC-ODMILINT/DESCRIPT CA	THE CONCESSION OF CONCESSION OF CALCULATION OF CALCULATION OF CALCULATION OF A CONCESSION OF CALCULATION OF CALCULAT	BEAD: COL
218. AC-ODMITTER DEBUTIES guillenetit	THE TOTAL TOTAL TOTAL CAR CAR THE CARCENT CARACTER CARE TO AN ANTAL COLORS TO AN A THE TARK	100.0
220. AC-00977676(Experies stewart)	TO A TO BE CONTRACTOR DATA DATA DE CARDON DE LA CARDONNA	ternet and
321. 80-00461773:Debertas Leaturephalos	TO A TO THE CASE OF THE TAX AND AT THE DATABASE OF CASE AND THAT THE TAX AND THAT TO THE TAX AND THE COMPANY OF	100.00
222. AC-HEBBUITS (Expectes stricists	THE REPORT OF THE STOCKNER OF THE REPORT OF THE PARTY OF	BEADCO DE
221. AC-CUTLET4 Departure achievalulus	TONE OF THE REPORT OF TAKANGED TRACKS CAN BE AND CAUSE TO AN CAUSE THAT CAUSE TAK COMPANY AND TAKEN AND THE TAKEN	anni - cas
224, AC-EPS15196 Expectos estecia	COLORAD COLORAD STATE COLORAD STATE CARACTERISTIC CONTRACTOR STATES CONTRACTOR COLORAD STATES COLORAD ST	NANCE ST
223. AC-02571072 fadmoice pusilie	TO RECEIPTE TO THE TABLE TO THE CALCED TO THE CARD CAUGE THE GAR CAUCE THAT COULD TO A THE TABLE TO THE COULD THE CO	SUAS: 25
226. 20-00481805) Emberica rutila	treit er ber bei bei ber bei ber bei ber ber ber ber berte berte berte ber ber ber ber ber bei bei ber ber bei bei ber bei ber bei	1000
127. AC-80242452 Passer dissertious	tes ne recent de la care a concentra a server se a construir a la concentra da concentra da concentra de construir a decisión de	
228. AC-HETGINGS Passer mishitious	te a la companya da companya	9610-91
228. AC-JERTISTICE Passan contains	TO A TO THE CONCERNENT OF THE ACTION OF THE ACTION OF THE ACTION OF THE ACCESSION OF THE CONCERNENT OF THE	COLLECCED S
200. AC-00482006 Personia personia	triate office the fair in the state of the state and the state that is the state of	BELECCE
231. AC-F7465315)Carporplan brackydactyla	TAND CONTRACTOR OF A DATA DE CONTRACTOR AND CARDER AND CARDER AND CARDER AND AND CARDER AND CARDE	DENS-NO-
202. AC-00402576:Montifringills mrvblis	tean and a second a s	BEAD: COS
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59.4	323	 8-0	10 w/s gaps.

Selected genetic code Vertebrate Mitochandha

Species/Aikev	AN 14 A 14
204. AC-OQ461008:Eremoprelitzia mutgolica	ERCOCAUTATION DE LA COCAUTA DE FETALE DIA CANTECCOCE DA TANÉ COCA PARTA COCAUTA ATAL ATAL ATAL ATAL ATAL ATAL C
105. AC-00452013/Laucostints execticals	TRE CRATINETAR TERRETORIE CONTRETORS FROM CONTRETORS TAN TANDE CONTRECCEDAR AND AND CONTRECCED AND AND AND AND AND AND AND AND AND AN
204. AC-00482049(Leucosticte Aranati	E CARE CATAL COLLEGE CORRECT CORRECT CORRECT CORRECT CONTRACTOR COLLEGE COLLEGE AND CATALORS AND CARE AND A DARD CALE AND CALE AN
207. AC-STARLIND Rhodospias checists	TATE TATE A THE A A THE A A CARDE TA A THAT THE TATE AND THAT A THE ATTACK AT THE ATTACK AND A THE AND A THE AND THE TAKE TAKE TAKE TAKE TAKE TAKE TAKE TAK
108. AC-00401470/Lineria flevirostris	Excerts a range of the second s
208. AC-OQ401405/Linesis cannakina	PACCONT CATALONS DATE DAARS TAR TAR TAR TAR TO TA TARTA DATE OR TAR ATA O ATT CORTAN TAR TAR TAR TAR TAR TAR TAR
210. AC-ODATEMANIcale-purvisentra	BACCOMPENDANT, ON NOTES COMMAN AND AND COCCUMANTAL COMPECTATION COMPACT AND COMPECTATION OF THE DESCRIPTION
III, AC-001420(9)Centualia centualia	EN CONTENENTED ON ANTE ON ANTE ON ANTE CONTENET OF A DATE OF
212. MC-00482639(Serinus pustlius	THE COMPANY AND
211. AC-SQUILEND: Spinus spinus	PROCESSION AND AND AND AND AND AND AND AND AND AN
218. AC-32174776(Endering seisnoorgaals	ENCLUSE AND ADDRESS OF AND ADDRESS AND ADDRESS AND ADDRESS ADDR
111. AC-RC4383131 Endering brunnings	BECCHART AVER TREASER ATTENDED AND TREASER THE TRATACCCC TREASER CONSTRUCTED AND ATTENDED ATTENDE
218. AC-SUSTINGTINGTING CALANDER	THE CARE TO A DEALE STRAND TO BE AN A THAT TO BE COULD AND AND COULD AND COULD AND COULD AND COULD AND AND AND THE DEALE THE DEALE THE DEALE AND THE DEALE A
117. AC-JEANALISI Emberine facate	TO CARE AT MAR AND A COMPANY OF A CARACTER THE COCCUTE TAX TAX. SHARE COCCUTE AT A DATA DATA AND A A A DATA TAX TAX TAX TAX TAX TAX TAX TAX TAX
218. AC-60481747)Emberiak dis	The statement of the second
218. AC-SQUELTES Engenting godievekit	TAX CAN PERSONNEL COMMENTS OF A COMPANY OF
320. AC-899174761Especies stewarti	TA COMPARENT AND COMPARENT OF AND THE TO BE COMPARENT OF A TAKE OF A DEAD OF A
321. AC-00491772/Braweise Learningheise	EXCLUSION FOR THE FORMET DESIGN FOR THE FORMET CONTRACTOR OF THE THE FORME
222. AC-HFSHUITS/Experize stricists	THE CAMPAGE AND COMPACT DESIGNATION OF A DESCRIPTION OF A
JII. AC-GHTLET4 Exterine schemololus	E CONTRACTOR C
224, AC-EFE18796(Experios surecls	TO COMPANY AND DESCRIPTION AND DESCRIPTION OF THE D
121. AC-DUTIN'I faissies putils	DECEMBERTATA DE CAME CARTE DE ANA O DETTA AL COCCUTA ANTONIO DE COCCUMA CATA CARTA CARTANA AN A DARE DE DIA DA
124. AC-00481818(Endering rutils	ERCENTETATE CONFORMED CONTACTORY AND COCCURATE AND COCCURATE AND COMPACE AND COMPACE AND
127. AC-29242412(Passer domenticula	ESC CANTALANTAL TRADUCTORT DIALAN DIA TANT CORTAN TANTAN CANAGE AND ALL AND ALL OR CANAGE AN A DARK THE DIA TO TAN
229. AC-METHTROS: Passer ModULLIOUS	ESCURATERANA COMPANY DE DERAK TER TRATERCO TRATERE DE CACADA CALENCATER CALENCATER CALENCATERA AND A CALENCETE DE CAC
229. AC-JP957525(Passer montains	FOUR AND THE OWNERS TO AND THE DESCRIPTION OF THE DAY DESCRIPTION OF A DESCRIPTION OF THE DAY OF A DESCRIPTION
295. AC-6Q482395:Petronia petronia	ESCALATATION CONTRACTOR AND DELAND THE DECOMPLETE CONTRACTOR AND
231. AC-22465315/Carpnepins brachydactyla	TA COMPAREMENT OF A REAL PARE THE TARE THE TARE COMPAREMENT OF A COMPACE TARE TO COMPACE THE COMPAREMENT AND THE TARE T
252. AC-00482176:Nossifringills mivells	EICCRATENTOR TORATORIA CONTROLARS DER DARTE CEL TANDATE DER CONTROL DER ATTE CONTRACTANTIA ATTENDE TO TRACTAN

Tpettes/Alkey				
204. BC-00482609:Eremopealtris mongolics	A T AT HAN KNAN TANKA SA	COLUMN CAUSED AND A CAUSE AND	1 01101 01 1 10 10 10 10 10	STATATOT TO ATACT
208. AC-00482083/Leurosticts semuricula	COTANTCODE CORACTORACES	CONCERCICATION CONCERCICATION CA	ACQUARTER CACABERCATOCOUTC	STRATANT TO TO TATAOT
206. AC-SQ412148(Septortinte Asandti	CONTRACTORS CARRY TANKACTA	сотопалесо гоставлава облесаритета са	ACOTANTEDICACAS-DEACHCITE	TATAT I TATAT
107. AC-82445259:Mondorping churclets	CONTRACTOR CARACTERISTICS.	COLUMN COOL STRANGER CARDENAUTORIA	ACATAN2 OF ACAS CONTACTOR	STAATAAT : DI CHICATANTI
208. AC-ODANIA79: Linaria flavisostria	SCRONT CORP. AUXA CONSCIAN	concentration and the same second contact and	ACOTAND OF A AGO CARDO DEDC	STATAT CONTRACTOR
209. AC-DD451455:Linerie cennebine	COLUMN CONTRACTOR OF	teresserer efetassasieseesastetara	A- 17AUT-17-A- 80 870 TTT-	STRATER TO THE ATAXES
218. BC-00071908/Logis-Durwirostra	R R af that same a set	terenderer metaonenaristerationen eta ante	ACOTANS OF SACODOCCASO STATE	STATAT D D ATASE
211, AC-HWISZIND) Cardualis mardualis	CONTRACTOR AND A DATE OF A	technologe metabakakeakeakeakeateake	ACUTANT OF A DOCCATO ITT	STAATAAT III III ATASE
212. AC-00462639(Berinus pusilius	CORCARCORADORNAL DAVADORNA	COCORDECCO COLORISACIA COLARECTACA	ACTEANT OF INCOCCULTOCOTT	PEADATE D. D. ATAND
113. AC-Opin1405: Spinus spinus	CONTRACTOR AND ADDRESS OF CAM	ter subsceepe consumption charge farm	ACUTAATOR ACCOUNTS INTO	OT CATALLY DESTRICATANTS
214, BC-20174796(Emberics melanoceptals	STATE OAD ARAD TABOT AA	CCCOSESCCCTCCTACEASECCASECCTACE	ACOTANTE DE CACCO-BCAZOCOTEC	TANDAT CO.C. ATER
215. AC-3053331151Esterios brutalega	CORCEPTION OF A DESCRIPTION OF A DESCRIP	CONCEASED CONCEASED CARE CARE CARE	ACUTAUTTOT ACCOUNTS ATSCUT	TAATAAT DO DO ATONT
214. AC-00571847 (Expension calendra	CONCASSION OF THE OWNER OF THE OWNER	CORESANCE OF CREEKING CHACCERCORDER CA	ACOTANE CONCREMENTED IN THE	STATAT II II ATASE
217. AC-SF499110 Delector futate	CONTRACTOR CAUSARTERSPICES	teresadeer tretsesatateseekst rans	ACQUARTC& CACABERCATECTES	STATAT IS TO THE ATART
218. AC-ROOMINGTO Embering cia	SCHOOL SCHOOL SALES TABLECOM	tore in accorded to the sheet accurate the sheet of the s	acatanteateacadeeatactte	TATATAT TITLE ATASE
118. AC-SQ481786 Disarise gotionskii	CONTRACCORDINAL ACTIVITY OF	CONSERVICE CONSERVATION CONSTRAINT	ACUTANT CONTACTOR AND CONTRACTORS	STAATAAT CETTER ATANES
120. AC-03977476(Repering stewart)	CONCASCORA CARACTARIAC CARACTARIA	CORPORATOR CONTRACTOR CONTRACTOR CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR CON	ATOTAN DOBUTA CARCOLACIO CITER	STAATAAT DI CII CATANTI
221. AC-ODAR1772 DeSeries Leumonytains	CONTRACTOR ADARCEMENTS	techinacce constantiaciac canenerara	ACUTANT OF ACADCOCACUCTURE	STATATE DO DE ATANTI
222. BC-HENDOITHIRDesion strinlats	CONCRETE READ AREAS PARTICIPAL	to to so a contraction of the state of the s	ACTEANS OF A ROCCERSON THE	STATATE COURSE ATANES
221. AC-02111874 Exterios ethosnicius	CONTRACTOR AND A DATA CARDON CAR	CONCERNMENT CONCERNMENT CAREFORNER		STAATAAT III III ATAAT
124. AC-EFF19796(Interios mirebla	CORCASCORASCARASCE AFRICAS	CONSISTENCE CONSISTENCE CONSISTENCE AND CONSISTENC	ACOTANT COSTA COOCCERTOCITIC	TATAT D. D. DATAT
328. AC-DENTLET2: Endering pustile	CONTRACTOR AND A DESCRIPTION	CONTRANCCONCERCIAL MARKACURCCRAFT CARA	ACATEMPTER ACCOUNTS TO THE	TANTAL TO THE ATANT
214. ac-opening motils	CONTRACTOR AND A DARCENS	CONSISCE CONSISTER CONCEASE CO		itabat II II abat
227, AC-000428821Tacent dimentions	A-TRATICIAN ARAS TRUCK AN	CROSSE TO TO TABLE TAR CARDENESS	ACOTACTICS ACAD CONTRACTOR	STRATAAT COCCUTATANT
128. AC-MF767304) Banner monhitigan	A TTAT OLD AND TTODA 14	CLOSES TO DECEMBER OF CARTERS	A OTANTTOT & AD	STRATAXETER TO ATASET
229, AC-JESSTORE Passer montatus	ACTIVATOR ADDARACTICA CAN	CARDERS FOR THE TARGARD TO A CARDY TARA	A-STANDAUTER - RO-B-A-G-ETT-	STRATAST TO TO TATAST
210. AC-004823966 Personia personia	CONTRACTORS AND TAXALL	COMPANY OF ACTION AND CARCELLARS AND	ACCULATION OF A ROCCELED OF THE	TAXABLE TO DECAMA
131. AC-EN483315: Carpospins brachydactyla	COMPAREMENTAL PARAMENTAL	CORRESPONDED TO TAXABLE CALCULATION OF TAXABLE	AT REAL PROPERTY ACROSC CATEGORIES	STRATAGE CONCREMENTS
252. AC-OQUELITEINOUTITTINGILLS sivalis	TAT AND THE ACAS STORE AS	contenta loco and has the same cable of the same	ACOTANTINETS ACCORDICE DE	STAATAAT : DE CEE CATANES
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50c+ 214	in gage		Telected	genetic code Vertebrate Mitochon

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204. AC-00403610 Eremopealtris mingolice	AND SCREEK SCREEK STREET STREET SCREEK SCR	CATACCARCECCTTTTCTHATECTIC MECHOCOMONAPTATECATECTATECT
208. AC-094620521Laurostarta temptinila	AACCECARCACATECETCEACCCOCACOTEGACCCAUTA	TATACCANCECTCTINETECTINECOCCANANTATATATCCANACCC
206. AC-00482549(Cescortiste RossH1	ANCONTRACTOR AND DECEMBER AND	CENERCENA CARCELE EN EN EN EN EL
207. AC-F2465310;Rhomospigs chaplets	ALECT CARCACOCO CONCERCION COCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC	Ex1x:::x:::::::::::::::::::::::::::::::
108. ac-00401479/Linaria flavincetria	ALCORONACION CATECONTO CONTOCIO CALENDARIA COCALECC	CRATATE NACACO TETECTICATE COTORS CACOCARANTATACATEC TO A COT
208. BC-00401410/Lineria cannabine	AND DUALSTON AND TROUBLOOD STATESTICS.	TATATCASCACCTER TAATECTICUS SCCCADAATATACATCTCATACCT
218. AC-00071900/Losis-purvirontre	BACCBCRACKCRCATE CETRACCCCCCCRANNANDESANCCAUSE	
III. AC-89042009/Candualia candualia	AACCECASCACCACATECETCEACCETCATEALALALALALALALACCEAST	THEATERACATE TETT
212. AC-00452639/Decimus pusillus	AACCECARCECEACEECERCEACCCENCANNANNENACCCANECC	TO TATE AND A CONTRACTOR DE LA COMPACIA CON A DE A CATECO
213. AC-OQ451895/Spinus spinus	AACCECAACECCACETECENCCOTECAEEAUGAEEEACCCEETEC	TATATCAACACCTETECTUATECTICUSCCACCCAURADIATACATCC
214. AC-JULTETTEIEnseriss melahooeghala	ARCONCEPTARIA CENTER CONTRACTOR CONTRACTOR AND AND CONTRACTOR	EATAS 14.18:28
215. AC-SC439313 Delector brunkcept	AACCTCAACECCACATECERCERCECECECECALEASEASEACCCCATEC	TATACCASCACCTOTECTCATECTCCCCCCCCCCAALTERCATECTALECOTEC
214. BC-00071547/Embering calandra	ance bease accarate and the parce for bosansassance of the	1011C011C1C1C1C1C
117. AC-27409510/Exporting futute	AACCECAACACCACATECETCEACCCCCCCCCCAAACCCCCCCC	TATAT CAN ACCOCK THE SHARE CONTRACTOR CONTRACTOR AND CONTRACTOR
218. AC-ODDETTATIONMENTAL CLA	Alex State School of the Sale of School Sales and State of the	TATAT AN ANT TO BE THAT THE RECEIPTION TO A TO ANT OF THE TATE OF THE TATE OF THE TAXABLE PROPERTY OF TAXABLE PROPERTY
218. AC-SQUELTERIESBURGLAN gutlawahit	MACCOCANCECTA CATTOR CONTOC DECEMBER AND CONTOC	TATACCANCAT SCHOLDARD CERCENCEACCAURED CALANCES
220. AC-09977474161Enberlas prevarti	ANCONTRACECTOR STORE SALCONSCIENCES AND AND CONTRACTOR	TATACCALCATE DETECTION TO CONSCION CAMPANY DACATES DALLES
321. 82-00411772:Deberine leannoophalas	AAccurate action and a recent contract and a standard and a contract of	TATACCASCATOR TOTOLS CONCERCING AND TACATCONNER
222. AC-HENRYLTS/Reperize striclets	MACCURACECCA CATE CONTRACCORCANNERS ACCOUNT OF	23233 CB CB CB CB CB
221. AC-00571874 Reported achievialus	AACCELASCALTACATECETTACCCCCCCCCCCCCCCCCCCCCCCCCC	CALACCAACACCECEE
124. RC-EF915756 Deberits exteris	AACCTCAAMACCACATECERCEACCCESCAEEEEEEEEEEEEEEEEEEEEEEEEEE	TO TAR CAN CARE TATE CONTRACTOR OF CONCERNANCE TATAL CONARCE FOR
225. AC-DISTURT2 Endworton gustille	AACCECAACECCACETECESACCCECCASEASSASSA GACCCECEC	TATAT
226. AC-00481805(Emberias rutils	AACC CCARCECCACATE CETHACCO DICAR HANHAHACCO TIC	TATAS : AACAS - S
337, AC-89282812 Desert domestions	AAcobeaacheraches enten corestateness anteness enter	
228. AC-HE'sellige Passer modultions	ANCO DOMAC ACCANANTO PROVANCE DE CANENANA NA COCANTO	TATACCALCATE STOP BEARS FOR BOR ACCUBANCE SATATCORANTES
228. AC-27937525 Teaset montanue	AACCECAACATCATATECTTEATCCCOCACECCECACEACEACEACEACECCCC	TATACCANTATESTS CONCESSION CONTRACTOR SAARS CALANCE CONSACCESS.
230. AC-00482555; Petronie petronis	Alex Constant of the second second and the second	TATAT AN AT THE PARTY OF SIL A CAMPAGATATIC DATE IN
231. AC-72465315/Carpinguan Brachydactyla	MACCOCANCELES CATECOLOCICAL CALLAGES CALCUNCT	2.8. C. C. M. W. A. C
252. AC-00452176/Honrifringills mivalis	ALCOROLLE CARACECERCERCE CARACECERCE	TATA CARCAR STORE BUARDO BOOMER COCCAMANTATA CARCONALDE DA
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Selected genetic code Vertebrate Mitachaw

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204. BC-00482609/Erenceealtris acceptics	AND COMPANY OF CAME OF THE PARTY OF THE PARTY AND A REAL OF THE TO BE T
208. AC-00482083/Leurosticts semuricula	AND COMPACTORS IN THE DE THE STORE DATE AND COMPACT OF THE TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL
206. AC-80482048(Septentinte Annult)	AND RECEASE OF COMPANY AND THE PARTY OF COMPANY AND REAL TO BE THE
207. AC-87465259:Montrepine charitete	ANTI- DA PECCEPTERTAL AT ANTI- PARTA CARDER PERSON CONTRACTOR AND
208. AC-00401479/Linaria flavinostria	KARACCERCE CECTOR DE CECTOR DE METER DE LA COMPTER DE CARACTER DE CARACTER DE COMPCETE DE LA COMPC
208. AC-Openieshina cannabina	AND COMPACT THE OF THE OF THE CONTRACTOR OF AND CONTRACTOR OF THE CONTRACTOR OF THE OF A CONTRACTOR OF THE CONTRACTOR
218. RC-00071988/Links-Dirvirostrs	ANTAR AN COURT AND DE TANK DE T
211. AC-H0162009/Cardualis mandualis	AND COMPACTORS FOR STREAM AND THE AND THE AND THE STREAM
111. AC-00461639(Berinus pusilius	AND COMPACT THE OF THE AT ANY CONTRACTOR OF THE ACTION OF THE TOTAL CONTRACTOR OF THE THE CONTRACT OF THE TOTAL OF THE TAXABLE OF TAXABLE
213. AC-00481485: Spinus spinus	KARACCERCERTE COLORER CARE AND CONTRACTOR DE CONTRACTOR CONTRACTOR CONTRACTOR AND CONTRACTOR CONTRACTOR CONTRACTOR
214, BC-JQST4776(Emberica melanoceptals	NATATORNECCO STATE OF PARTAULY CALLER AND A CALLER
215. AC-SCADEDLD: Estention brunklops	ANY ACCRARGE OF TAXES IN TRANSMENT AND RECEIPTION OF THE CONTROL OF TAXES OF TAXES AND A TORNAU AND A
114. AC-SUSTLEST Endering calandra	AND ACCOUNTS AND DOCUMENTS OF THE OWNERS AND DOCUMENTS AND ACCOUNTS AND DOCUMENTS AND DOCUM
217, AC-SF498130/Endering Surate	HARACCEANS COOCEANT COTTON CONTRACTOR THAT CALL THE A TOP OF THE COLOR TOP THE TOP ASSAULT AND AND A TOP TO A SAUCE
218. AC-ODOLISTI BROADLES CLS	AND A CARD DOCT THE REPORT OF THE REPORT
218. AC-Opid1788/Disertae godineskii	KATACIAN PLOCED TO BE DATE AND COMPANY AND COMPANY AND COMPANY AND COMPANY AND COMPANY AND COMPANY
220. SC-00977476(Esseries stevert)	AND COMMENCE TO THE FAIL AND CARE AND COMMENCE OF AND COMPANY OF THE COMPANY OF THE OTHER OF THE ADDRESS OF THE OTHER OTHER OF THE OTHER
221. AC-OQULITY2 Debenies learningDalsa	KARACCAR CCCCCTARE CATEGORICAL CARECTRANTACCE AND CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
222. AC-MESSIONS-Embering striclate	NAME OF CONTRACTORS OF THE OWNER OF CONTRACTORS OF THE DECEMBER OF THE OWNER OWNER OWNER OWNER
221. AC-DINYLE74 (Belancias schoeniclus	AND COMMENCE THE STREAM OF THE CARD OF THE TAX OF THE TOTAL OF THE COMPLETE TOTAL COMPLETE TOTAL AND THE TOTAL AND THE TOTAL AND THE TAX
224. AC-EF919796 Expering surveils	MARKAD KANDED DE BERTE BETER BETER BERTER
223. AC-CHITIST2 (Edmitia guattle	AND CONTRACTOR DEPENDENCES IN THE DATE OF DESCRIPTION OF DATE OF DA
224. AC-02401000/Emberics rutils	HAR ACCHARCE COCHARCE INTERNAL AND CRAME CALLAR CACCHER STORE CONSTRUCTION CALLES CONTRACTOR AND CALLAR AND CAL
227, AC-HE26252172/Parent dimentious	AATACIAAA KOOCTATEOTTI TAATIMATA TAATIMICE AATACIA CAATACIA TAATA TAATA TAATA TAATA TAATA
128. AC-ME767904(Passer moshitings	A REAL CARACTER STOLEN TO A RECENT AND A RECENT AND A REAL STOLEN. THE REAL STOLEN AND A REAL STOLEN AND A REAL STOLEN.
228. AC-29857022:Passer montatus	HARAT ANALYSIS TO THE STATE OF A CONTRACT OF ANY CALCENEERS OF THE
230. AC-OQUE2306 Personia petsonia	A A DA FORMA CONCEPTANTE CONTRACTANT AND A DA A DA A DA A DA A DA A DA A
231. 80-82465515/Carporpiss heathydactyla	KERNELAN COLOR TRANSPORTER STATION TO CHECORAN CAN THE REAL AND THE TOTAL CONTRACT OF THE TAX OF THE REAL AND THE TAX OF TAX OF THE TAX OF THE TAX OF THE TAX OF
232, &C-OQ482176/Montifringilla mivalia	MARKOCKANCCOCCUPATES STREAM STREAM SANDCACCUCTURES STORE SCIENT STREAM STRE
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204. AC-00462400 Eremografters sungelide	THE R. LEWIS CO., LANSING MICH. AND ADDRESS OF THE PARTY
JUE. AC-ODMIDISTLemmeticue semusicula	THE CASE OF CA
J04. AC-0040304WiCessostinte brandti	THE RECENT OF AN A REPORT OF A DESCRIPTION
207. AC-F2465359 Rhodospins chanlets	ANTERN THAT ANT THE COMPANY THE COMPANY OF THAT IS THAT IN THAT AND AN CAN BE AND AN CAN BE AND AN COMPANY AND
208. AC-00401470/Lineris flavingetris	Auffrige The sale of the second state of the s
108. 87-000014551Liberia menabina	A STERN THE AND THE COURSES THE ACCOUNT OF THE COURSE OF THE ACCOUNT OF
210. AC-000719001Logia-pubvirostra	KATENA TEM ANT TE CONTACT AND
J11. AC-0924JD19:Centualis mentualis	A STATE AND TAX TAX THE TOTAL A THAT OF ATT I TAKE TAKE TAKEN AT A STATE AT AN AN AN AN ANALY CONTACT TO CONTACT
212. AC-00462639 Derinas postilias	COMPAREMENT AND THE POST TALK TRACCOURSE TO AND TRADE TALE TO AND AN TALK AND
JIS. AC-00481495) Sponus spinus	KUTTOKE TAU ANT THE COURSE ACCOUNTAINS THE ANTE TAUGUE ANTE AN TO ALL AN AUCUMENTS ANTERNAME COURT IN THE TAU
214. AC-50174776 Enhering melanocephala	ANTERIA COM TATE DE L'OTTA A COMO DISTANTE DE LA COMPANIA A DE LA CARTA
215. AC-8C458515 Debenias brunchege	A STRACT THE RATE OF THE RECEIPTION OF THE RECEIPTION OF THE CASE OF THE RECEIPTION
216. AC-00071847/Repectus calandra	A STRACT THE ARE THE FOUR THE DESCRIPTION OF AN A STRACT AND A STRACT AND
217. AC-IT400111 Deporton futate	AND THE POINT OF A CARDON POINT AND A CONTRACT OF THE CONTRACT OF A CARDON CARD. AND
218. AC-00481747(Depering cia	AND INC. SO AND DE CONTRACTOR DE
J19. AC-ODMITSS Extention goldenskii	A 1 C A 1 C
220. AC-HEN71676(Enberlag stewart)	AND INC. COMPANY OF COMPANY OF COMPANY OF CASE PROPERTY OF CASE
331. 85-00401773:Deberias Leannrephains	and in the state of the state o
222. AC-MENDINI Superine stricists	AND DECEMBER AND DECEMBER OF AN ADDRESS OF ADDRESS AND ADDRESS
JIT. AC-CUTTLET4 Departure athornizing	A 12 CA - TTO - AATTER - COURSE A - COURSE A - COURSE - COURSE AND - AATTER A - COURSE - AATTER - ATTAC
234. AC-EFELSTON Emperios estedia	AND THE TO AND THE REPORT OF A DATA OF THE CONTROL OF THE AND COMPANY AND THE WARRANCE AND THE REPORT OF THE CONTROL OF
225. AC-00571872 Exterize pusille	AND DATE THE CANTER OF COMPACT OF A CONTRACT OF THE AND COMPACT AND
226. AC-00481610 Emberica rutila	Anten and a state of the second state of the s
127. AC-00242412 Denser dimentious	A STATE THE RATE OF A COMPANY AND A STATE OF A STA
228. AC-HF161304(Panyer mushivious	A PRANE PROVIDE THE POST OF THE RECENT OF THE PARTY OF T
128. AC-IVETTER Passed anniance	A TANK THE ALL THE TOTAL THE ACCOUNTS OF A TANK THE AND THE AND THE AND THE TAX AND AND THE ADDRESS OF A TAX AND AND THE ADDRESS OF A TAX AND A TA
210. AC-00402006(Perconis petconis	Land the chair and the for the chair chair containts of the first statute of the first statute statute of the first statute of the firs
231. AC-F7461315:Campospins brachydactyla	And in the contrast of the total state of the total state of the second state of a state of the
192. AC-004821761Montifringills sivalis	Reference finde and the first finder ball of the second of the first finder of and the second s
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2peries/Altery		A REAL PROPERTY OF A REA
107. AC-F7448389: Bhodospins obsolsts	EXCERT ATAXTOURNOOTIC COARST FOR TANTIC CONTACTOR	BEASCOCCUENCETER COLORATER AND CATERASCOCCUENTS TACTOR
205. RC-SQATEATWILINAMIA ELevenaturia	TACCCAT CATARTERIA CARECULAAC DERCEARTECCCCTRATANTE	CARGECCERSER TREER TO COORT CAREARYAN CATAL CTECTOR TAR STORE
209. AC-ODDIASSILLMATIA CAMBRIDA	PACCORD CREAR FOR A REAL FOR A A CREAR CREAT COOL COCCERNING AND	STATE CONTRACTOR STORES CALENDARY AND TAXAGE TO THE TOTAL SCORE
III. AC-GISTLEDE Losis-cutvinista	EXCECTION TAXY CONSISTS COURSE TRANSPORT	CONSCIOUSING ATTACKTOCCOCCATANAL AND
211. AC-H924202HH Cardorlis unrdorlis	TACCCATTATOA TRANSPORTECISTAAS CERACERSTECCCCERATAATC	COMPCCCCAMERATASCATECCCACCALCANTANACANCANCESCESCESCESCESCESCESCESCESCESCESCESCESC
213. AC-00402610:Derinus pusilius	PATTERN A TAAY CORACANY CORAAC PER PARTY COUNTARY	CONSCIOLATION CATALOGICAL CARENAL AND CATALOR CALLS AND CALLS
211. AC-Opercent opinie spinis	TARCCAT CATAL TOUR SOUTH CHILAR CHILCREN COCCULATIANC	CONSCIOUSING CARACTERIC CONTRACTANTANCATANO TO TORCEASE SCOOL
314. AC-70574776 Exterios esistoreghala	THE CAAS CATER TO SEE SATTER BAAR CORE TARTECCCCTURY AND	SABOOCCERSCHER CALENCERCERAL AND AND THE PERCENCENCE
218. AC-HC4995LD/Enterine bruncoepe	TACCART CATORY DOBADOLE THE GALAC DUAC TASTACCCC TRATANC	SEASCOCCESSICATESCATE COCACEASEAAAXAACA BAABCEECTEACEACE
Ils. AC-GENTLET(Exterize calandra	TACCAN TRATER CONNERSATION GAME TORCEC STOCCCC TAN TARTS	STATECCESSACATASCATECCESCERATIAASCAACAACATECTECTES TACTACES
217. AC-JP499130 Enterits fucets	TROCAL CATOL CONSIST CONTROLS AND THE COCCELEMENT OF	COMPCCCCARE ATAOCATE COLLEGAN SAATAAACAACA SAASTE COMPCCCCA
212. AC-OQUELTAT/Examples cla	TACCAS PERTANTICAL CATTORIAN CONTRACTOR CONTRACTANT	SERE COCKERCETESCOTT CONTERNATION TRANSCOTTOTESCOTT
218. AC-OD401740(Experise godlevex1)	TACCAL TATAL TOO BOOT COLLARCE ACCORTANTAL	SERECCCCREEKCATERCREECCECHARTERSCRECKECKECECCECECECCEC
220. AC-00077070 Deserves energies	TACCANTTATAAT COURSESTE COURANCE CATCOUT COULTANAATC	CONSCICTABLE CATASCATE CONCERNMENTANCATANGET COMOTIC FORCESCO
221. AC-89401772/Experise levonceptains	TACCANTTATOAT CONSISCIOUS ARCTISCO TO TOTATATAT	COMPCCICATE CATEGORIE CONTRACTANCE TARGET CALLS CONTRACTOR
322. 82-87980179(Baberias strislets	FOCTAATTATAAT COODECTITUGAAACTERCTOPTCERTATATC	CONSCICTOR CATAGORIE COCACUAATAAACKACATAACCIICISATIACICCOC
JIN. AC-00071974 Reseries schoenicies	TOCCARTERTART CONSTRUCTIONS ASSOCIATE COCCURATE ASTANT	OSC SCCCCRASHER TASCATE CCCAC HAR TARE AN CATALOUT COMPTER SCCCO
224. AC-67535790 faiwering worweile	THE CANETA FAAT CONSIGNT COMAAL THACTANT CCCC TAATAATT	READECCESSION AT A DECCESSION AND AND A DARCE THE DEATES. DECCESSION
225. AC-87971872/Braderiza purilla	TOCCANTER TARE CONSTRAINT COMARCEMENTS OF COCCURATE AND	CONSCIENCE AND AND COCKERANTANE AND TABLE TO THE TABLE COOP
328. AC-SQ481505 Entwrine rutils	TATCAS TTATAS COUSSESS TO BARACTURITAS TO COOLARACAT	SARSCOCCAGE CRIMICALI COCECEARERAN CARCANAR CRISTER DECOS
227. AC-HRG62662(Passer dimentious	TOCCARTTATANTERSONALTIC SOLARS DEACTARTICS.	COMPENSATION OF CALCULATION OF CALCULATI
221. AC-02767304 Passer moddtious	TACCAS TRATAS CONSIGNTIC CONNECTOR DATACCCC TANTANT	SANDENE CARACATASCATTECCAC DAATAAACAACATASCTTCTSACTACTACCO
229. AC-379070201Busser montanus	TOCCARTER TOR TOBUS DESIGNED COMMAND THE CREST COCCERN TAXES	STATE ACCRETATION CAN CONTRACT AND AND AND THE TRACTORS IN CON-
230. AC-02412335/Petronia petronia	TOTTARTATIAT CONSIGNTIONAL TERTERSTOCT TANTANT	CONSCRETE ORACINATION CONTRACTANTA CARGE TO TOACTACTACCO
JUL, AC-FOOKBLE-Composition howothylactyla	TACCHATTATAATCOHANOOTTOHAAACTHACTANTCOCCCTAATAATC	SARCCCCARACATACCATECOCCCARACAASCAATATARSCTTTTOACTACECCCC
212. AC-OQ402276/Honoifringslie nivelie	TOCCARTER TORE TO SAME ATTENDANCE CARTER CONTRACTOR AND CONTRACTOR OF CONTACT OF	CORRESCORE CATAGORIE CORCERCIANTANCATAR CATAGORIC TRACTACTAC
255, AC-HFEHO147/Lonchure mainterics	TACCART CATARY CONSIDER TO COMARCE MACTINE CONTRACCE STRATANES	CONSCIENCE TARGET TO COMPANY AND CARAGE TO TORE TO THE CONSCIENCE
134. 80-3F498994 Lonchurs punctulats	EXCECTED CREATE CONSIGNATION CARACTERIC PROTOCOLS CAN TAKE	CONSCIONANCE TRACKED COCKCURATIONAL RATES BOOT TO BOAR SCOT
200. AC-HOLDENIZAVLanius minor	TOCCTATESTATESTATESTATESTATESTATESTATESTAT	OOC OC DOC MARKET AND CARD COCH CHARTER ATAA TATEA OF TO ACT TO ACT OF CARD
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207. AC-E04483589(Rhodospias cheolens	B. T. M. C. MARCHARD, TANKS C. MARCHARD, C. M. TANKS AND TANKS. TANKS. COMP. S. MICH. MED. MARCHARD, W. M. AND M.
208. AC-OD481479 Lineria Flevienetria	E CARTE AND AND TANKE TANGCARCE AND CONSISTENT AND AN CARACTER AND TANKE AT A CARE OF A CARACTER AND THE AT A THE TO A CARACTER AND TANKE AT A THE TO A CARACTER AND TANKE AT A CARACTER AND TANKE
JON. AC-OQ4014101Linerts canadrina	The state of the second state of the second state of the state of the state of the second state of the state
JUL. SC-0071300 (Losts-curvicumus	TO RECOMMENSATION CARCEMENTS OF TAXABLE AND DATES OF TAXABLE TAXAB
111. AC-H9D+2009/Cardorlis sardorlis	THE RECEIPTION AND ADDRESS OF THE REPORT
JLL. 65-50453838:Sering publics	CO. I TO REAL THE DATE RECOMMENDED FRANCES IN CASES IN CASES IN A DESCRIPTION OF THE REAL OF THE PARTY OF T
213. AC-ODITIONING aplous	E-E-AD-COAD-ADARTEMENT ARCCOMMENTS FOR ADARTE FACTOR FACTOR FACTOR FOR A COMPANY OF A COMPANY OF A COMPANY OF A
J14, AC-JULT4776 Rebector estanoouthals	F. F. AT COMPANY TANKS TANKS CALCUMPTER F. TANKAR, BACKARD, TACAS BARTAR, ACCURATE ACCURATE AND THE ATMENTS
218. AC-RC4999UB Deseries brusicope	Colorado and and the second of the second se
J18. AC-ODIVIDEV/ Enterine calendre	COLUMN CARE ANAL TAILOC MAC TAILOC ME TAILACE TO TAILACE IN CAMPTER AND TAILE TO A SAULT OF A SAULT AND TAILACE TO TAILACE TO TAILACE TO A SAULT OF A
217. AC-IF499110(Esterios fuceta	ter affentigt and the second
118. AC-ODISITATIONNELLAS CLA	E F
218. AC-OQUEITGGERRHering godjeverkin	CONTRACTOR ANAL DATE OF THE POINT OF THE ACCOUNT AND THE REAL POINT OF A ADDRESS OF THE OTHER THE POINT AT A TH
131. AC-80177676(Brimrics signari)	CONTRACTOR
221. AC-ODART72/Depering leurorephalos	te frage and a state have been the construction of the state of the st
JII. 85-80100175 Exects stricists	TO THE REPORT AND A DAMAGE AND TRADE OF THE PARTY OF THE PARTY OF THE PARTY OF THE REPORT OF THE PARTY  THE PARTY OF THE P
123. AC-00971876(Enbering schoenining	er bitte nie bing beite in einer beite eine beite eine beite beite beite beite eine beite bitte babat bit th aber i
334. AC-EPI33100 Delevine entenia	CONTRACTOR
238. AC-00871872: Reservice putille	to I all could have been the base of the b
JDF. AC-SQUELEDS/Esterios rublis	to a second s
221, AC-H9262652(Dasser domentious	A DESCRIPTION AND AND AND AND AND A
228. AC-00707204(Bases musbuttous	A TEAT COAS ANAL TEAM AND TANK AND AND TO THE TANKAN ME INCLUDED TO AN OTHER A ADDRESS OF THE TAX DADRESS OF A TAX THE
229. 30-JE987020(Faster suttamp	A TEAT ON A SAME TEAM AND A CANADA TO CAMARANTIA CAMPTER AN OTHER AND TAXATE AND TAXATE TO TAXATE TO TAXATE TO
230. AC-02482335 Decronia petronia	CONTRACTOR CONTRACTOR OF CONTRACTOR OF THE DECEMBER OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR
231. AC-EDIGIDICarpospins heachpinotyle	te tratt das and these the construct of the same the character and the state of the second to the state of the second to the state of the second to the seco
212. AC-OD402176/Bennifringille mirelie	The state and state and state and state of the state of t
218. AC-HFERILST(Loniburg emission	te i all such and have been the mention of the second the an entropy of the second the state of the second
254. #5-3F49HF14(Lonthurs putrialata	DE TATE AND AND DANS CANCENATE ANTERNAL CANCENER AND ANTER ANTER CANCENER AND ANTER THE CANADAN CANCENER AND ANTER THE AND ANTER THE AND ANTER THE
198. AC-REPRISE Lexing since	C. BART MC. LAR. FORM ACCOUNT. CONTRACTOR CONTRACTOR AND THE ACCOUNT OF A DESCRIPTION OF A
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107. AC-FOARDERSHIP Biodospiles checkets	
208. AC-ODARCETWILLINGTIM FLATIONALTIM	C TATH C TATHER SO C ATHR C COMMANDER C C CANTANTA C C C C C C
209. SC-OQ401455/Linaris cannabina	CONTRACTOR OF A DESCRIPTION OF A DESCRIP
III. AC-00111000 Losis-curvinstra	
211. AC-H0242089(Capdoclis sandoclis	
J13. AC-SQUEDELD: Derinus posilius	STREE TAATTET IN CONTRACTOR AND
213. AC-Spintertriping spinus	
214. RC-JUSTATTO Deseries estanocoptals	CONTRACTOR
218. AC-SCADULD/Execute bountoeps	
118. AC-DENTIDAT/Experies calendra	
217. AC-JP47913D Enderline Founts	
212. AC-SQUELTATIONBARYLAN CLA	
218. AC-004017401Experise godlewskil	CONTRACTOR AND A
320, 85-89971076 Epierics steverti	B TOTA : THATTER : B . C. C. ATAA C. C. C. C. TTA
221. AC-OQUELT72: HaberLaw Leunsceptalow	
322. AC-HEYRCLYN Resentes striklets	Recently in the second se
228. AC-00071914(Experise schoenicies	
JIS. AC-CTUITIC Examples sursols	ATTE IN SCATAL CONTACT OF A CON
225. AC-00571872/Esserize purille	
128, AC-OphibibiBenerias sutils	C TATE : TATE : TATE : SO S S S S S S S S S S S S S S S S S
227. AC-HR162682(Fasser dimesticue	CTART IN COLOR OF A TRANSPORT OF A T
228. AC-ME767504 Passet monhiticus	THE TAXE OF A THE CONTRACT OF A TAXE CONTRACT AND A
229. AC-JP9970291Dunser montanus	
230. AC-62452335 Fetponia petronia	BUTT AT A A A A A A A A A A A A A A A A A
201. AC-52468318:CarpingLis hoschydectyls	tricter to the second se
252. 85-00482276/Honsifringilla movalia	
255, AC-HFEBRIDAT/Londuite malamentos	
134. &C-37408974(Lonchurs putchulats	
218. ac-00201124/Lantus sints	
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207. AC-FOMMUMACHINGTONIAS CHEOLEUS	ANTECCESS FORCE STREETERS SET OF THE TREETERS TO THE TREETERS FOR THE THE	To the Local Colors of the Local Col
208. AC-ODISLATBILLINGTIA Elevismetria	ANTACCANACCCCCCCATECOTOTON CANTERCOMATENCE CANTERCENCE CONCECCE CONSECCE	TO TO CARGANYES - ANTIC TO TO SCALE CON
20%, AC-Opi014801Lineris cannabina	ANTINCE ANTICE CONTRACTOR DE LA CONTRACTA CONTRACTA CONTRACTOR DE LA CONTRACTOR DE	TO TO CAROLINA CARDICAL CONTRACTOR
210. AC-00971999/Losts-curvirumum	ANTATE MANCCOLE CATEGORIE DIALCONTICE DAAD CHERNELACTICE DAE DE DE DE DECHNELSE	TOTO COCONANTS CARES OF TAXABLE DE
211. AC-H9D42009(Cardomits mardomits	ANTROCANACCOCCUMPTON ANTROPHY ANTO ANTO ANTROPHY ACTION FOR THE COLOR OF COLOR OF COLOR	TO TO SALATTA ANTO TO TA ANTO CO.
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114. AC-JULTATIC Expectes estanceptals	ANTAT ANALOUCE TATE DE TONT AUTOCANT ACCOUNTS CONTRACT CONTRACTOR	CO. TO CANCERATE & ANTO TO T A MARCENE
218. AC-RC459710 Detector brushceps	ANTROCANACCOOR CATE ON COMPANY ANTROPANY ACCORACTOR COMPANY ACCOUNTS OF A COMPANY ACCOUNTS OF	CONTRACTOR AND CONTRACTOR
J14. AC-GUITLEST Exterios calandra	AN PACENANE DOCCUPATE OPPENANCE AND COMMONNEED IN THE DECEMBER OF THE DECEMBER OF	CO-TO-AUDIATES-AABS-TE-T-AUACCES
217. AC-JF499180(Entering facets	AN THICKNAME BOOKS AND CONTROLS CONTROLS TARE THE DISARD OF THE DAY SECTION OF THE CARD OF	BE-BE-ANNALYES-BATS-BE-S-SHARES
118. AC-ODITITAT Extension cla	ANTROCAME FOCCESST INTO THE FART MATCHE FARTHER FOR THE FORTER FOR THE FORTER FORTER	TOCCOCKERSON TAXABLE DECTOR SANCED
218. AC-ODARITERIERARIA godjevskii	ANTIACCANACTICCCC TOTTE DES DALS CARTES TANK CARTES ANTIC DES DES DES DALS DE TRE CARTES DE	TOCCOCARDOATES CASTOC MCCCACARDOOD
331. AC-83917976;Beberles staverti	ASTACCASA COCCUPATION TATES TATES TATES CAN TACCAST COLORAD COLORAD COLORAD COL	BECCHCCERCATE CAREACECCERSCHERCERS
221. AC-ODAN1772 Deperios lesoucephalos	ANTI-CANACCOURCENTS THE DESCRIPTION STATEMENT OF SCREETE STATEMENT OF SCREETE STATEMENT OF SCREETE STATEMENT OF	PROPERTY AND AND CALLSON AND CALLSON
322. AC-H0100175 Departes strictets	AN TATE KANEGOOGE INTEGNED THATCOUTED TAN TRACSCHATTORE TACTOR TATECCE TO CONTRACT OF TATECCE TACTOR TATECCE TO CONTRACT OF TATECCE TACTOR TATECCE TACTOR TATECCE TACTOR TATECCE TACTOR TATECCE TACTOR TACTOR TATECCE TACTOR	CO-DO-DALLAND CACCADA COCCURA CALARCENS
223. AC-00971814(Enberies schoenicies	ANTACCANACTOCCONTRODUCTION CONTOUND ANT CONTROL OF	CECCECEDERAL CACENER CECECECE CACENER COL
224. AC-OPTISTOCOMMULAN Autoula	NATACCAMACTOCCCTATECHTE DAN SANTCOTATECTATECTCCTACTCCTATECCCACCCACCACTECT	BECCECKER AND AND A DATE AND A DATE AND A DESCRIPTION OF
228. AC-00071072(Sepering purills	AMENCERINACCOCHO DELECTEDE DINECKIEDOC DANE: NOCHORADO DOCENCE DE COCENCE DE CAROCANESE E	THE COLOR AND ANY TACANTACTACTICACADATION.
228. AC-Opening Depening runals	ANTACCAANCECCCENTERRETATIONECTEANT CACESCENTACECCENTERCECCENTERRET	THE CHARGE AND A CALLARD AND A CALLARD AND CHARGE
221, AC-H9262612-Denses domesticus	ANTACCANACECCCC TATE OF COMPLEX CANTACTARY ACCORATES TACTOR FOR THE COMPLEX CANTER	THE DECKNER AND AND A DECKNER AND A
338. AC-MP101314: Passer musbittous	AN ENCOMING COORDERS TO THE CONTROL OF A CARACTACENEES CONTROL OF CONTRACT OF	COCCUCATE AND A CANER OF THE DAAL COAL COL
229. 20-3F#8702F(Fasser sontanis	ANTARCANACTICCC INTERESCIENTSCIENTSCIANT ACCORDICATION FOR THE SCIENCESCIENCE	CONTRACTOR AND DATE AND DATE
230. AC-02402355 Decrement personals	ANTACCANACCOCCURATION TORS CONTACTANT INCOMENTAL FOR TACTOR TACCANT CO	ABORDONSCHER ANTRONY CACASACCES
231. AC-F044323-Carpospins heachydactyis	ANTACCARACCCCC FEATECHTATERS CONTCORED AND CACTURES IN THE DEPOSITION AND CONTROLS OF CONTROLS	CONTRACTOR AND AND ADDRESS OF THE ADDRESS OF
232. AC-0245217018tentifetegilla nivelta	ANTACCHARCOCCCUTATE COTTENATORITECTANE CACEGORIETECECCUTECTICE AT CACEGORIETECE	ESCORESCATOR ANTICIC TRACKERCOS
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254. AC-IF401174(Lonchurs puurtalata	ANTATE ANALISCIE CENTRES TATEATECE TECTANTE ACCORDECTION TO COORDECCE TECTES	COCTOCIONAL CACANTACTCO CACANACCEME
208. AC-002001241 Lanius minor	ANTROCANACCOCACTATEROTITURE - RECORACTACCOCASTECTAC DE CECCERCOCECCERTECE	BECKELCERARDACENTECTORACENACCEM -
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207. AC-F2448389/Blodosping obsolets	ANTINACTERS IN	AN COCCURATE A	actal constants	CTANT COMPONIES AND CANES	Tell is in in the hard	ABABACCTCCT CCCTATCE
208. 80-00480479/Linerie flevirostria	AUTORACCO DALLER	ATCT COCTACA	CTTRACCOUNTRY OF	CORAT: CANERSON AND CANE	TO A DECKACK CARDENAL	RAAATCCCCT SCCCTATING
209. AC-OQUDIESSILLEASIE CANADIAN	ANTIOAC TEAD IA	and the loce has	THE OTHER	CONTRACTOR AND CARDONAL	TCATCA-AA AA AA AA AA	LALL COCCUPACE AND CAL
III. AC-GRYLERS:Losis-curvinsta	ARTICLE TRADES	ADCIDE COCTACA	CC288CCBOTETTE:	CORRECTION CONTRACTOR	TTAL SCREEKS CALCULATION	AAAAECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
211. AC-H924205H(Candorlis unrdorlis	ANTINACITAD TA	ATTECCO COCCACA	THE REAL PROPERTY.	CONTRACTOR CARDON CARDONAL	TALL ACCURATE AND	AAAADCCCC DCCC DATCH
212, AC-SQ452410:Derinus pusilius	COTTOACTTANCS.	AT THE CONTRACT	CTEASCORDERS C	TORATE TARRESCANTONAS	TO A CARABONA CAN BARAN	AMARCCCC DOCCCRATCH
213. AC-OQ481496: Bpinus spinus	AUTIOACCEAN".	ATC TO CTOCCTACA	COMPCCOUNTS IN	E ANT DESCARCAS	TTOR COMPANY AND	LA LA DECCEPTION DE LA
214. RC-32574776 Departs melanoregials	ABTTUAL TEO F	ABC THE TO CHING	COMPOSIDE ADDRESS	TTCAATCOTABESCANTCAAC	TTCKECSCRACKSCRAECASCRE	LALA SCOOL SCOOL SCOOL
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318- AC-004017461Experize godlewex11	ANT RACE TO A	A TOTOLOGIC CONTROL	CONTRACTOR OF CALLS	TANK CANCELERS AND CANCELES	CALCULAR STRATES AND	A A A A S S S S S S S S S S S S S S S S
220. AC-00077070/Domailes stavarts	ANTCHACTORS	ATCTTCTCCCTCCA	COLUMN CONTRACTO	TTCATCOLARCEAST CAATCAAC	TO CARCENCE ACRESS TA A TACKE	AAAAECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
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324. AD-67313700/federias survels	ALL CALLER AND	ATTTE CATTA-A	COMACCULTANCE.	TTCAAT CAATCAATCAATCAAT	TECKICAL SACEAL SALTANCHY	A MARCECCO DE CONTENENTE
125. AC-80971872(Experize portl)a	ANT COACT TRACK	ATTER COCCUSACE	CONSCIENTS OF	TTCANTCO TOURADCANTELAC	TTOR CROANCESCANT CARCER	LA LA DECCE TRECE TRECE
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229. AC-J79971001 Baneer montanue	1021512 BIS-1	at 🖬 to fa a	CTARCED TATCE	AT ANY PROPERTY.	TTER TRACKACESCERATION OF	AAAABCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
230. AC-SQUE2335/Petronia petronia	ADD COLCUMNSTA	ARCE TO COOL AND	COMPCCEDENTS:	CONTRACCONSCRETANC	TTORECROPACENCE SATERACKE	AMARCE CANCELER CAR
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252. AC-OQ402276:Huntifringille mivelie	ABTAILS	ARCERCECCUTACE	COMPCCE SCREET	CONCEANCE AND CONATCANE	TTATEACAACAACAACAACAA	ARREST COLORED COLORED
238. AC-HF500347/Lonchuze malaberics	REPRESENTATION OF	AT C TO C TO C TACA	TTAN ADDING .	I TAN CARE CARD	I AL A AL AL AL ALTAN	ALL COLOR CONTRACTOR
134. 80-39499914(Lonchurs punctulata	ABTRACT TABCC	ATTTC: COCEACE	CTERS & GOTATES	CALCULT CONSISTENCES CONTONNE	TO A DOLLAR A DALLAR AND A DALLAR	AMERICA CONTRACTOR
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212. AC-00002010 Derinus postitus	TAR AND DE LE ANDRE AND AND AN AND AND AND AND AND AND AND
213. AC-OQUILANS Opinia spinus	ELA CARECCECE CELEVAL CARCECECCECCECCECECECECECECECECECECECECE
214. RC-JST4776 Especies sulanocephala	ECATOR TO THE TOTAL OF A CONTRACT OF CARE OF CARE OF CARE OF CARE OF THE CARE OF THE CARE OF THE CARE OF THE CONTRACT OF THE CARE OF THE C
218. AC-HC4090LD/Braeging boundoeps	ETA ETA EN
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231. AC-SQUE2335/Fetponia petronia	TAR TO BE THE CORPORATE OF TAXABLE AND
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212, AC-02402410 Derinus posilius	MARCE AND DE CARE DE CARE DE CARE AND
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314. AC-70574776 Departs melanocephela	ANCE TAKEN TAKET TERBECCARCENARYA ANALYA ANALYA ANALYA TAKEN ANALYA TAKEN
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220. AC-03071016 Dimension prevents	MART TRACKTOR AND TO BE TO THE COMMAND AND COMMAND COMMAND COMMAND TO THE RANGE TRACK AND THE COMMAND C
221. AC-09401772/Espectas Leuncoephalos	MART THAN A COMMAND TO FRANCE TO THE REPORT OF THE OWNER OF THE TABLE OF THE DESIGN OF THE TABLE OF T
322. AC-HT901179 Releving striplate	MACCONSTRUCT AND CONSTRUCT DE ANNO 14 CONTRACTOR DE CONTRACT
223. 30-00971974(Experies schoenicius	MACK CARCEC BACK CONSTRAINTS
124. AC-EFTITIC Busclas survola	KATE & ANTA TATA TE TE TATE TO AN AT AN AT AN AT A A A THE TATA TA AN AT TATE TATE TO AN A THE ANALY TATA TO TATE TATE TATE TATE TATE TATE T
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228. AC-82767504 Passer montations	ARE TO ARE REPAIRS TO ARE A CONTRACTOR AND A CONTRACTOR AND TO TAVA CONTRACTOR AND TO THE REPAIRS TO A CONTRACT OF A
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252. AC-OQ402276 Huntifringilla sivalia	MART TARAN TARAT TO BE ANTO CORRESPONDENCE AND AND COMPANY TATA COMPANY TATA COMPANY TO THE DESCRIPTION OF THE TARAN TARA COMPANY AND COMPANY
258. AC-HFE00147/Lonchurs maladerics	AND TANKS COMMANY TO A RECEIPTION OF A RECEIPTION OF A REAL PROPERTY OF A REAL PROPERTY OF A REAL PROPERTY OF A
IN. 80-3F00074(Londura punctulata	MAR TANK & CARACTER DE CARACTER DE MANAGEMENTA DE MARTE CARACTER DE CARACTER DE LE MARTE DE MARTE DE MARTE DE M
238. BC-HO201124/Lancus minor	MALE TANKS & TA TATE OF CARCENES AND
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## Appendix D

## Nucleotide Composition of samples of Passeriforme of Pakistan

The nucleotide composition of COI gene of different species of Passeriformes shows how different or similar ATGC content is in the same gene of different species. MEGAX was used to compute the frequencies of each nucleotide (ATGC) in the barcode region of Passeriformes species of Pakistan.

The analysis involved 43 newly generated sequences of Passeriformes and 193 retrieved sequences from GenBank of NCBI database of Pakistan.

Cytosine showing highest average amount 32.5% followed by Adenine 25.9%, Tha mine 24.5% and least Guanine 17.1% of nucleotides and total average amount of nucleotides was 670.7 in all sequences.

It shows a clear variations in the frequencies of nucleotides Thyamine T(U) ranging from 21.1% (Lophophanes dichrous) to 28.4% (Cercotrichas galactotes) deviating from aveage values. Highest Cytosine value was 38.0% (Remiz pendulinus) and lowest was 27.0% (Rhipidura aureola).

Highest value of Adinine 29.1% (*Cisticola juncidis*) and lowest 22.4% (*Rhipidura hypoxantha*) was observed. Guanine value was highest 18.9% (*Hippolais languida*) and lowest 15.5% (*Prinia buchanani*) showing deviation range from average value of Guanine in the all 235 sequences.

Nucleotide composition of an organism reveals its genome. GC content varies among species and has several implications.

Data Filename: All Passiformes of Pakistan COI 19-7-23 \_235 .meg Data Title: All Passeriformes of Pakistan COI. Nucleotide Frequencies Sites Used: All selected All frequencies are given in percent. Domain: Data

T (U) С Α G Total T-1 C-1 A-1 G-1 Pos #1 T-2 C-2 A-2 G-2 Pos #2 T-3 C-3 A-3 G-3 Pos #3 26.7 28.6 28.1 16.6 693 16.9 28.6 23.8 30.7 231 42.9 27.3 15.6 14.3 231 20.3 29.9 45.0 BOLD:AAF5733|Lanius vittatus 4.8 231 BOLD:ACZ2474|Prinia buchanani 25.7 31.2 27.7 15.5 600 19.0 26.5 24.5 30.0 200 42.5 28.5 16.5 12.5 200 15.5 38.5 42.0 4.0 200 BOLD: ACZ2564 | Alauda gulgula australis 22.8 35.0 25.0 17.3 597 15.1 28.6 24.6 31.7 199 42.7 29.1 14.1 14.1 199 10.6 47.2 36.2 6.0 199 BOLD:AAD9870|Galerida cristata arenicola 23.2 34.1 25.1 17.5 680 16.8 27.9 23.9 31.4 226 41.9 28.2 15.4 14.5 227 11.0 46.3 36.1 6.6 227 BOLD:ABX5008|Passer hispaniolensis 24.1 31.0 27.4 17.6 672 17.4 27.7 22.8 32.1 224 42.0 28.1 15.6 14.3 224 12.9 37.1 43.8 224 6.3 BOLD:AAC0536|Sylvia curruca curruca 25.0 32.2 25.4 17.5 693 16.5 28.6 23.8 31.2 231 42.9 27.3 15.6 14.3 231 15.6 40.7 36.8 6.9 231 25.3 30.1 26.2 18.5 692 17.3 28.1 22.9 31.6 231 42.2 27.8 15.7 14.3 230 16.5 34.2 39.8 BOLD:AAU3934 | Tephrodornis pondicerianus 9.5 231 BOLD:ACH6125|Dendrocitta vagabunda saturatior 24.6 30.7 26.8 18.0 684 16.7 28.1 23.7 31.6 228 42.5 27.6 15.4 14.5 228 14.5 36.4 41.2 7.9 228 BOLD:AAR9140|Corvus splendens splendens 26.0 29.4 27.8 16.9 681 16.3 28.2 23.8 31.7 227 41.9 28.2 15.4 14.5 227 19.8 31.7 44.1 4.4 227 BOLD:AAC1536|Phoenicurus ochruros 26.3 32.7 24.0 17.0 666 17.6 27.5 22.5 32.4 222 41.9 28.4 14.9 14.9 222 19.4 42.3 34.7 222 3.6 BOLD:AAV9282|Chrysomma sinense 24.3 33.0 25.4 17.3 672 17.0 27.2 23.7 32.1 224 41.1 28.6 15.6 14.7 224 14.7 43.3 37.1 4.9 224 27.4 27.8 28.1 16.6 693 17.3 28.1 23.8 30.7 231 42.9 27.3 15.6 14.3 BOLD:ABZ8019|Lanius schach schach 231 22.1 28.1 45.0 4.8 231 BOLD: ACZ2475 | Prinia socialis socialis 25.0 31.5 26.7 16.9 693 19.0 26.4 23.8 30.7 231 42.4 27.7 15.6 14.3 231 13.4 40.3 40.7 5.6 231 BOLD:AAX4494 | Melanocorvpha bimaculata 22.3 35.7 24.7 17.3 681 16.3 28.6 23.8 31.3 227 41.9 28.2 15.4 14.5 227 8.8 50.2 34.8 6.2 227 BOLD:ACE4748|Acridotheres ginginianus 24.5 32.7 25.3 17.6 683 16.7 27.8 22.9 32.6 227 42.5 27.6 15.4 14.5 228 14.0 42.5 37.7 5.7 228 BOLD: ACS3101 | Cisticola juncidis 25.7 30.6 29.1 14.6 588 18.9 27.0 25.0 29.1 196 43.4 29.1 15.3 12.2 196 14.8 35.7 46.9 2.6 196 BOLD:AAE0119|Pastor roseus 23.1 33.3 26.3 17.3 693 16.5 29.0 22.5 32.0 231 42.9 27.3 15.6 14.3 231 10.0 43.7 40.7 5.6 231 BOLD:ACZ1830|Emberiza buchanani 23.4 34.3 24.5 17.7 693 17.3 28.1 22.5 32.0 231 42.9 27.3 15.6 14.3 231 10.0 47.6 35.5 6.9 231 24.2 33.5 25.1 17.2 693 16.9 28.6 22.9 31.6 231 42.4 27.7 15.6 14.3 BOLD:ACH8855|Eremopterix griseus 231 13.4 44.2 36.8 5.6 231 BOLD:AAB3874|Carpodacus erythrinus 25.7 30.9 25.5 17.9 693 16.5 29.0 22.5 32.0 231 42.9 27.3 15.6 14.3 231 17.7 36.4 38.5 7.4 231 BOLD: ACZ2757 | Oriolus oriolus 24.7 30.9 26.7 17.7 693 18.2 26.8 23.4 31.6 231 42.4 27.7 15.6 14.3 231 13.4 38.1 41.1 7.4 231 BOLD:AAB5621|Corvus corax corax 26.1 29.9 27.8 16.2 693 16.5 29.0 23.4 31.2 231 42.4 27.7 15.6 14.3 231 19.5 32.9 44.6 3.0 231 BOLD:AAL2706 | Pericrocotus cinnamomeus 26.0 30.2 27.1 16.7 693 17.7 28.1 22.9 31.2 231 42.4 27.7 15.6 14.3 231 17.7 34.6 42.9 4.8 231 5.2 BOLD:ACZ2474|Prinia hodgsonii 25.5 30.7 27.0 16.7 693 18.2 27.7 23.4 30.7 231 42.4 27.7 15.6 14.3 231 16.0 36.8 42.0 231 BOLD:AAB2042|Zosterops palpebrosus palpebrosus 24.7 32.4 26.5 16.4 615 15.6 27.8 25.4 31.2 205 42.9 29.3 14.1 13.7 205 15.6 40.0 40.0 4.4 205 24.8 33.2 25.8 16.2 693 17.3 28.1 23.4 31.2 231 42.4 27.7 15.6 14.3 231 14.7 43.7 38.5 3.0 BOLD:AAN3860|Pycnonotus leucogenys 231 BOLD:ACH0131 | Phylloscopus affinis 24.1 33.0 25.4 17.5 693 16.5 29.0 22.5 32.0 231 42.9 27.3 15.6 14.3 231 13.0 42.9 38.1 6.1 231 693 16.9 28.1 23.8 31.2 231 42.4 27.7 15.6 14.3 231 BOLD:ABW5160|Corvus corone 25.7 30.2 27.6 16.6 231 17.7 34.6 43.3 4.3 BOLD:ACE7266|Copsychus saularis saularis 25.3 33.3 25.0 16.4 609 17.2 26.6 25.1 31.0 203 42.9 29.6 13.8 13.8 203 15.8 43.8 36.0 4.4 203 BOLD:AAY1381|Trochalopteron lineatum lineatum 23.7 32.9 27.0 16.5 693 17.3 28.1 22.9 31.6 231 42.9 27.3 15.6 14.3 231 10.8 43.3 42.4 231 3.5 22.3 34.7 25.1 17.9 692 16.9 27.3 22.9 32.9 231 42.4 27.7 15.6 14.3 231 7.4 49.1 37.0 BOLD:ACZ3140|Parus major 230 6.5

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BOLD: ACZ2846 | Urocissa flavirostris flavirostris 25.1 30.7 26.8 17.3 693 16.9 28.1 23.8 31.2 231 42.4 27.7 15.6 14.3 231 16.0 36.4 41.1 BOLD: ACZ2835 | Stachyridopsis pyrrhops 24.7 31.2 26.6 17.6 693 17.7 27.3 23.4 31.6 231 42.4 27.7 15.6 14.3 231 13.9 38.5 40.7 BOLD:ACS4664|Terpsiphone paradisi paradisi 26.1 29.9 26.4 17.6 693 16.9 28.6 22.9 31.6 231 42.4 27.7 15.6 14.3 231 19.0 33.3 40.7 6.9 BOLD:AAC5713 | Myophonus caeruleus 25.0 32.2 25.0 17.9 681 18.1 27.8 22.0 32.2 227 41.9 27.8 15.9 14.5 227 15.0 41.0 37.0 7.0 25.5 30.4 26.6 17.5 693 18.2 27.3 22.9 31.6 231 42.4 27.7 15.6 14.3 231 16.0 36.4 41.1 BOLD: ACZ2808 | Hypsipetes leucocephalus 6.5 BOLD:AAI9717 | Dicrurus leucophaeus 27.6 28.4 27.7 16.3 693 18.2 27.3 22.9 31.6 231 42.4 27.7 15.6 14.3 231 22.1 30.3 44.6 3.0 BOLD:ACZ3094 | Emberiza lathami 231 42.9 27.3 15.6 14.3 23.5 34.1 25.5 16.9 693 16.5 29.0 22.5 32.0 231 11.3 45.9 38.5 4.3 BOLD:AAC1399|Passer cinnamomeus rutilans 23.8 31.5 26.8 17.9 693 16.9 28.6 22.5 32.0 231 42.4 27.7 15.6 14.3 231 12.1 38.1 42.4 7.4 BOLD:ABW5160 | Corvus macrorhynchos 23.1 35.1 25.1 16.7 693 17.3 28.1 23.8 30.7 231 42.4 27.7 15.6 14.3 231 9.5 49.4 35.9 5.2 231 42.4 27.7 15.6 14.3 BOLD: ACH8281 | Orthotomus sutorius 25.0 31.6 27.3 16.2 693 18.2 27.7 23.4 30.7 231 14.3 39.4 42.9 3.5 BOLD:AAW9936|Oenanthe picata 24.1 34.9 24.0 17.0 693 16.5 29.0 22.9 31.6 231 42.9 27.3 15.6 14.3 231 13.0 48.5 33.3 5.2 BOLD: ACZ2562 | Copsychus fulicatus 25.3 32.6 25.5 16.6 693 17.3 28.1 22.9 31.6 231 42.4 27.7 15.6 14.3 231 16.0 42.0 38.1 3.9 AC- AB843703|Pitta brachvura 24.5 33.0 27.0 15.5 678 17.3 27.4 24.8 30.5 226 41.6 28.3 15.5 14.6 226 14.6 43.4 40.7 1.3 AC-JQ173906|Aegithina tiphia 24.1 31.9 27.3 16.7 652 16.1 28.1 23.5 32.3 217 41.5 29.0 15.2 14.3 217 14.7 38.5 43.1 3.7 AC-MH938034|Lanius collurio 27.1 28.2 28.2 16.5 642 17.8 28.0 23.8 30.4 214 42.5 27.6 16.4 13.6 214 21.0 29.0 44.4 5.6 AC-G0482020|Lanius isabellinus 26.7 28.7 27.3 17.3 693 17.7 27.7 23.8 30.7 231 42.9 27.3 15.6 14.3 231 19.5 31.2 42.4 6.9 AC-G0482013|Lanius cristatus 27.0 28.9 27.3 16.9 693 17.7 27.7 23.8 30.7 231 42.9 27.3 15.6 14.3 231 20.3 31.6 42.4 5.6 693 17.7 28.1 23.4 30.7 231 42.4 27.7 16.5 13.4 AC-EF621598|Lanius tephronotus 27.1 28.9 27.4 16.6 231 21.2 30.7 42.4 5.6 AC-JF498786|Lanius excubitor 27.3 28.0 28.6 16.2 693 17.7 27.7 23.8 30.7 231 42.4 27.7 15.6 14.3 231 21.6 28.6 46.3 3.5 693 17.7 27.3 23.4 31.6 AC-G0482278|Oriolus chinensis 24.0 32.0 26.8 17.2 231 42.4 27.7 15.6 14.3 231 11.7 41.1 41.6 5.6 25.5 30.0 27.5 17.1 651 15.2 29.0 23.5 32.3 217 41.5 29.0 15.2 14.3 217 19.8 31.8 43.8 AC-JQ174696|Dicrurus macrocercus 4.6 AC-JQ174691|Dicrurus hottentottus 27.8 27.0 27.8 17.5 652 17.5 26.7 23.5 32.3 217 41.9 28.6 15.2 14.3 217 23.9 25.7 44.5 6.0 AC-J0176131|Rhipidura aureola 25.3 29.4 28.1 17.2 652 16.6 27.6 23.5 32.3 217 41.5 29.0 15.2 14.3 217 17.9 31.7 45.4 5.0 AC-KC354929|Hvpothvmis azurea 25.0 30.5 27.1 17.3 652 17.1 27.6 23.0 32.3 217 40.8 28.9 15.6 14.7 218 17.1 35.0 42.9 5.1 26.0 31.0 26.3 16.7 693 16.5 29.0 23.8 30.7 231 42.4 27.7 15.6 14.3 231 19.0 36.4 39.4 AC-GQ481963|Garrulus glandarius 5.2 AC-JQ176603|Urocissa erythrorhyncha 23.5 31.7 28.1 16.7 652 16.1 27.6 24.4 31.8 217 41.5 29.0 15.2 14.3 217 12.8 38.5 44.5 4.1 26.8 29.7 27.1 16.5 691 16.5 28.7 23.5 31.3 230 42.2 27.8 15.7 14.3 230 21.6 32.5 42.0 AC-GQ482478|Pica pica 3.9 25.0 31.2 26.8 17.0 693 16.0 28.1 23.8 32.0 231 41.6 27.7 16.0 14.7 231 17.3 37.7 40.7 AC-GU571501|Nucifraga carvocatactes 4.3 AC-GQ482576|Pyrrhocorax pyrrhocorax 25.7 29.6 26.7 17.9 692 17.0 28.3 23.5 31.3 230 42.9 27.3 15.6 14.3 231 17.3 33.3 41.1 8.2 AC-GQ482571|Pyrrhocorax graculus 26.8 29.3 28.3 15.7 605 17.4 28.4 24.4 29.9 201 43.6 27.7 16.3 12.4 202 19.3 31.7 44.1 5.0 26.7 28.6 28.6 16.2 693 16.5 28.6 23.8 31.2 231 42.4 27.7 15.6 14.3 231 21.2 29.4 46.3 AC-GQ481647|Corvus monedula 3.0 AC-GQ481640|Corvus frugilegus 26.1 29.7 27.6 16.6 693 16.5 29.0 23.4 31.2 231 42.4 27.7 15.6 14.3 231 19.5 32.5 43.7 4.3 AC-GU571521|Panurus biarmicus 24.5 33.0 26.2 16.2 690 16.1 28.3 24.3 31.3 230 40.4 28.3 16.5 14.8 230 17.0 42.6 37.8 2.6 AC-FJ465300|Ammomanes deserti 22.2 35.8 26.5 15.5 612 15.2 29.4 25.5 29.9 204 41.2 29.9 15.7 13.2 204 10.3 48.0 38.2 3.4 AC-MF580208|Eremopterix nigriceps 22.8 34.7 25.8 16.7 658 16.0 28.3 23.7 32.0 219 41.6 29.2 15.1 14.2 219 10.9 46.4 38.6 AC-GQ481854 | Eremophila alpestris 24.0 35.1 25.0 16.0 693 16.5 29.0 24.2 30.3 231 42.4 27.7 15.6 14.3 231 13.0 48.5 35.1 3.5 AC-GQ481412|Calandrella acutirostris AC-GQ481420|Calandrella rufescens AC-GQ482616|Riparia riparia AC-GQ482609|Riparia diluta AC-GQ482570|Ptyonoprogne rupestris AC-MF580225|Ptyonoprogne fuligula AC-KY754510|Hirundo rustica AC-GU460335|Hirundo smithii AC-GQ481533|Cecropis daurica AC-GQ481695|Delichon urbicum AC-GQ481692|Delichon dasypus AC-JQ176135|Rhipidura hypoxantha AC-JQ174591|Culicicapa ceylonensis AC-JX221707|Cephalopyrus flammiceps AC-JX508791|Periparus ater AC-HQ228194|Parus rubidiventris AC-HM185314 | Lophophanes dichrous AC-GQ481683|Cvanistes cyanus AC-JX849735|Parus monticolus AC-GU572079|Remiz pendulinus AC-HQ605288 | Aegithalos concinnus AC-KJ467143|Sitta cashmirensis AC-KJ467157|Sitta tephronota AC-KJ467146|Sitta frontalis AC-G0482777|chodroma muraria AC-KP282529|Certhia hodgsoni AC-KP772837 | Troglodytes troglodytes AC-GU571819|Cinclus cinclus AC-GO481589|Cinclus pallasii AC-JF498897|Pycnonotus cafer AC-KX529958|Pycnonotus jocosus AC-GQ482599|Regulus regulus AC-GQ481547|Cettia cetti AC-GU572031|Phylloscopus humei AC-MK360480|Phylloscopus griseolus AC-KU870799|Phylloscopus collybita

22.8 36.2 24.8 16.2 693 16.9 28.6 23.8 30.7 231 42.4 27.7 15.6 14.3 231 9.1 52.4 35.1 3.5 231 23.4 35.1 25.3 16.3 693 17.3 28.1 23.8 30.7 231 42.4 27.7 15.6 14.3 231 10.4 49.4 36.4 3.9 231 25.1 32.6 25.4 16.9 693 18.2 27.3 22.9 31.6 231 42.4 27.7 15.6 14.3 231 14.7 42.9 37.7 4.8 231 23.2 33.8 25.8 17.2 633 16.1 27.0 24.2 32.7 211 41.2 29.9 14.2 14.7 211 12.3 44.5 38.9 4.3 211 26.4 30.9 25.0 17.7 693 17.7 28.1 22.9 31.2 231 42.9 27.3 15.6 14.3 231 18.6 37.2 36.4 7.8 231 214 41.6 29.0 15.0 14.5 25.8 31.3 25.7 17.3 643 17.3 27.1 23.4 32.2 214 18.6 37.7 38.6 5.1 215 24.5 32.0 26.4 17.0 693 18.2 27.7 22.9 31.2 231 42.9 27.3 15.6 14.3 231 12.6 41.1 40.7 5.6 231 25.0 30.9 27.0 17.2 693 17.3 26.0 26.0 30.7 231 41.6 28.6 15.2 14.7 231 16.0 38.1 39.8 6.1 231 24.0 32.9 25.7 17.5 693 17.3 28.6 22.9 31.2 231 42.9 27.3 15.6 14.3 231 11.7 42.9 38.5 6.9 231 231 13.0 43.3 36.8 24.5 32.9 25.3 17.3 693 17.7 28.1 23.4 30.7 231 42.9 27.3 15.6 14.3 6.9 231 23.5 34.3 24.5 17.6 693 17.7 28.1 23.4 30.7 231 42.9 27.3 15.6 14.3 231 10.0 47.6 34.6 7.8 231 23.0 34.7 22.4 19.9 652 15.7 28.6 23.5 32.3 217 41.9 28.6 15.2 14.3 217 11.5 46.8 28.4 13.3 218 24.2 31.4 26.4 17.9 652 15.2 28.6 23.0 33.2 217 41.9 28.6 15.2 14.3 217 15.6 37.2 40.8 218 6.4 26.1 32.5 24.4 17.0 693 16.9 28.6 23.8 30.7 231 42.9 27.3 15.6 14.3 231 18.6 41.6 33.8 6.1 231 613 15.2 29.9 23.5 31.4 204 42.2 28.9 15.7 13.2 22.2 36.4 24.8 16.6 204 9.3 50.2 35.1 5.4 205 22.2 35.4 25.5 16.9 693 16.0 28.6 23.8 31.6 231 41.1 27.7 16.5 14.7 231 9.5 49.8 36.4 4.3 231 21.1 37.4 23.5 18.0 693 16.0 28.6 23.8 31.6 231 41.1 27.7 16.5 14.7 231 6.1 55.8 30.3 7.8 231 23.9 34.1 24.5 17.6 683 17.1 27.6 23.2 32.0 228 41.9 28.2 15.4 14.5 227 12.7 46.5 34.6 6.1 228 23.1 34.6 25.7 16.6 693 19.9 25.1 23.8 31.2 231 39.8 29.4 16.0 14.7 231 9.5 49.4 37.2 3.9 231 21.5 38.0 22.5 18.1 648 15.3 28.7 23.6 32.4 216 41.7 29.2 14.8 14.4 216 7.4 56.0 29.2 7.4 216 26.8 30.7 25.5 16.9 693 16.9 27.3 24.2 31.6 231 40.7 28.6 16.0 14.7 231 22.9 36.4 36.4 4.3 231 23.4 33.6 26.6 16.4 628 15.3 28.7 24.4 31.6 209 42.1 28.7 15.3 13.9 209 12.9 43.3 40.0 3.8 210 23.6 33.3 26.0 17.2 628 15.8 28.2 23.4 32.5 209 42.1 28.7 15.3 13.9 209 12.9 42.9 39.0 5.2 210 24.2 32.6 25.5 17.7 628 14.8 29.2 23.9 32.1 209 41.6 28.7 15.8 13.9 209 16.2 40.0 36.7 7.1 210 25.5 31.6 25.8 17.1 690 17.0 28.3 23.0 31.7 230 42.6 27.4 15.7 14.3 230 17.0 39.1 38.7 5.2 230 25.8 33.5 22.9 17.8 663 17.6 27.6 23.1 31.7 221 42.5 28.1 14.9 14.5 221 17.2 44.8 30.8 221 7.2 22.8 34.3 25.6 17.4 645 15.3 27.0 25.1 32.6 215 41.4 29.3 14.4 14.9 215 11.6 46.5 37.2 4.7 215 23.1 31.8 28.2 16.8 648 16.2 28.2 23.1 32.4 216 42.1 28.7 14.8 14.4 216 11.1 38.4 46.8 3.7 216 689 17.0 27.9 22.7 32.3 229 42.9 27.3 15.6 14.3 231 10.9 40.6 42.8 23.7 31.9 27.0 17.4 5.7 229 25.0 32.9 25.8 16.3 693 17.3 28.1 22.9 31.6 231 42.4 27.7 15.6 14.3 231 15.2 42.9 39.0 3.0 231 25.2 31.9 26.6 16.3 655 17.0 27.5 22.9 32.6 218 41.7 28.9 15.1 14.2 218 16.9 39.3 41.6 2.3 219 231 20.3 36.4 37.7 693 17.7 27.7 23.4 31.2 231 42.4 27.7 15.6 14.3 26.8 30.6 25.5 17.0 5.6 231 693 16.9 28.1 23.8 31.2 231 42.4 27.7 15.6 14.3 231 16.9 42.0 33.8 25.4 32.6 24.4 17.6 7.4 231 23.8 33.2 26.4 16.7 648 15.7 28.2 23.6 32.4 216 42.1 28.7 14.8 14.4 216 13.4 42.6 40.7 3.2 216 25.0 30.9 27.0 17.2 693 16.5 26.4 25.5 31.6 231 41.6 28.6 15.2 14.7 231 16.9 37.7 40.3 5.2 231 25.0 32.4 26.0 16.6 655 18.3 26.5 22.8 32.4 219 42.2 28.4 15.1 14.2 218 14.7 42.2 39.9 3.2 218

AC-GQ482461 Phylloscopus trochiloides	24.8	32.9	25.1	17.2	693	16.5	29.0	22.9	31.6	231	43.3	26.8	15.6	14.3	231	14.7	42.9	36.8	5.6	231
AC-HQ608867 Phylloscopus magnirostris	22.9	34.3	25.7	17.0	693	16.0	28.6	23.8	31.6	231	41.1	28.1	16.0	14.7	231	11.7	46.3	37.2	4.8	231
AC-HQ608865 Phylloscopus reguloides	23.2	33.9	26.1	16.7	693	16.0	28.6	23.8	31.6	231	40.7	28.6	16.0	14.7	231	13.0	44.6	38.5	3.9	231
AC-GQ481975 Iduna caligata	25.5	31.9	24.7	17.9	693	17.3	28.1	22.5	32.0	231	42.4	27.7	15.6	14.3	231	16.9	39.8	35.9	7.4	231
AC-KJ453177 Iduna rama	25.2	32.2	24.5	18.1	662	17.6	27.6	22.6	32.1	221	42.1	28.5	14.9	14.5	221	15.9	40.5	35.9	7.7	220
AC-KJ453167 Hippolais languida	24.3	33.8	23.0	18.9	662	19.5	25.8	22.6	32.1	221	42.1	28.5	14.9	14.5	221	11.4	47.3	31.4	10.0	220
AC-GQ481267 Acrocephalus melanopogon	24.1	33.6	25.4	16.9	693	16.5	29.0	22.5	32.0	231	42.4	27.7	15.6	14.3	231	13.4	44.2	38.1	4.3	231
AC-GU571212 Acrocephalus agricola	23.1	33.4	25.7	17.7	688	16.6	27.5	24.5	31.4	229	40.9	28.7	16.1	14.3	230	11.8	44.1	36.7	7.4	229
AC-KJ453132 Acrocephalus concinens	23.7	33.2	24.6	18.4	662	17.2	28.1	22.6	32.1	221	42.1	28.5	14.9	14.5	221	11.8	43.2	36.4	8.6	220
AC-AB893942 Acrocephalus dumetorum	25.1	30.9	26.0	18.0	693	18.6	26.0	22.9	32.5	231	41.6	28.1	15.6	14.7	231	15.2	38.5	39.4	6.9	231
AC-GQ481283 Acrocephalus scirpaceus	23.4	33.0	24.2	19.3	693	17.7	27.7	22.5	32.0	231	42.4	27.7	15.6	14.3	231	10.0	43.7	34.6	11.7	231
AC-FR847226 Acrocephalus arundinaceus	25.1	31.2	26.3	17.5	693	18.2	26.0	24.7	31.2	231	40.7	29.4	15.2	14.7	231	16.5	38.1	39.0	6.5	231
AC-KJ453157 Acrocephalus stentoreus	26.0	31.3	24.3	18.4	662	19.0	26.2	22.6	32.1	221	42.1	28.5	14.9	14.5	221	16.8	39.1	35.5	8.6	220
AC-JF957023 Megalurus palustris	24.3	32.3	26.5	16.9	682	18.9	26.8	23.7	30.7	228	42.3	27.8	15.4	14.5	227	11.9	42.3	40.5	5.3	227
AC-GU571955 Locustella naevia	23.1	32.6	26.9	17.4	648	15.7	28.2	23.6	32.4	216	41.7	29.2	14.8	14.4	216	12.0	40.3	42.1	5.6	216
AC-HQ608884 Prinia crinigera	25.1	30.4	27.8	16.6	693	18.2	26.8	24.7	30.3	231	40.7	28.6	16.0	14.7	231	16.5	35.9	42.9	4.8	231
AC-KU722459 Prinia gracilis	23.9	32.3	26.6	17.2	657	16.9	27.4	24.2	31.5	219	41.6	29.2	15.1	14.2	219	13.2	40.2	40.6	5.9	219
AC-HQ608883 Prinia flaviventris	24.2	31.2	28.4	16.2	693	18.6	25.5	25.5	30.3	231	40.7	28.6	16.0	14.7	231	13.4	39.4	43.7	3.5	231
AC-KT240052 Prinia inornata	24.9	31.6	25.7	17.8	607	15.8	27.2	25.7	31.2	202	42.6	29.2	13.9	14.4	202	16.3	38.4	37.4	7.9	203
AC-JQ176322 Sylvia nana	24.7	32.1	26.8	16.4	645	14.9	28.4	24.7	32.1	215	41.9	28.8	14.9	14.4	215	17.2	39.1	40.9	2.8	215
AC-GU572123 Sylvia nisoria	22.8	33.0	27.5	16.7	648	15.7	27.8	24.5	31.9	216	41.7	29.2	14.8	14.4	216	11.1	42.1	43.1	3.7	216
AC-GU571644 Sylvia crassirostris	23.4	32.9	27.4	16.3	693	16.5	27.7	24.7	31.2	231	41.6	27.7	16.0	14.7	231	12.1	43.3	41.6	3.0	231
AC-JQ176321 Sylvia mystacea	23.0	33.9	26.7	16.4	652	15.7	28.1	24.4	31.8	217	41.9	28.6	15.2	14.3	217	11.5	45.0	40.4	3.2	218
AC-GU572120 Sylvia communis	23.7	33.5	25.6	17.1	636	14.6	28.8	24.5	32.1	212	41.5	29.2	15.1	14.2	212	15.1	42.5	37.3	5.2	212
AC-JQ175951 Pomatorhinus erythrogenys	23.0	34.0	25.8	17.2	652	15.2	29.0	23.5	32.3	217	41.5	29.0	15.2	14.3	217	12.4	44.0	38.5	5.0	218
AC-MK069051 Laticilla burnesii	26.0	29.8	26.6	17.7	651	19.8	24.4	23.5	32.3	217	41.9	28.6	15.2	14.3	217	16.1	36.4	41.0	6.5	217
AC-JQ175707 Pellorneum ruficeps	22.9	32.8	27.5	16.9	652	16.1	28.1	23.5	32.3	217	41.9	28.6	15.2	14.3	217	10.6	41.7	43.6	4.1	218
AC-JQ173957 Alcippe poioicephala	23.8	31.9	28.1	16.3	652	15.2	29.0	24.0	31.8	217	41.5	29.0	15.2	14.3	217	14.7	37.6	45.0	2.8	218
AC-MH265887 Argya earlei earlei	22.8	33.1	27.1	17.0	631	14.8	29.0	23.8	32.4	210	41.4	29.5	15.2	13.8	210	12.3	40.8	42.2	4.7	211
AC-KC439341 Turdoides malcolmi	24.1	33.0	26.4	16.5	594	15.7	28.8	24.2	31.3	198	40.9	29.8	16.2	13.1	198	15.7	40.4	38.9	5.1	198
AC-MH265810 Trochalopteron erythrocephalum woodi	24.2	32.1	26.1	17.7	633	16.6	27.5	23.7	32.2	211	41.2	29.4	15.2	14.2	211	14.7	39.3	39.3	6.6	211
AC-EU447047 Heterophasia capistrata nigriceps	23.4	32.7	27.3	16.6	615	15.6	28.8	23.9	31.7	205	41.0	29.8	15.6	13.7	205	13.7	39.5	42.4	4.4	205
AC-GQ482226 Muscicapa sibirica	25.3	33.2	24.4	17.2	693	17.3	28.1	22.9	31.6	231	42.9	27.3	15.6	14.3	231	15.6	44.2	34.6	5.6	231
AC-JF498868 Leiothrix lutea	24.8	32.2	26.3	16.7	693	17.3	28.1	22.9	31.6	231	42.4	27.7	15.6	14.3	231	14.7	40.7	40.3	4.3	231
AC-GQ482216 Muscicapa dauurica	25.0	33.5	24.4	17.2	693	17.3	28.1	22.9	31.6	231	42.9	27.3	15.6	14.3	231	14.7	45.0	34.6	5.6	231
AC-GU571987 Muscicapa striata	25.0	33.6	23.5	17.9	648	16.7	27.3	23.1	32.9	216	42.1	28.7	14.8	14.4	216	16.2	44.9	32.4	6.5	216

28.4	28.9	25.7	17.0	658	18.3	26.0	23.7	32.0	219	42.0	28.8	15.1	14.2	219	25.0	31.8	38.2	5.0	220
25.4	32.0	25.3	17.3	693	18.2	27.3	22.9	31.6	231	42.9	27.3	15.6	14.3	231	15.2	41.6	37.2	6.1	231
24.1	34.2	24.2	17.5	652	15.7	28.6	24.0	31.8	217	41.9	28.6	15.2	14.3	217	14.7	45.4	33.5	6.4	218
23.8	33.3	25.8	17.2	652	16.6	27.2	23.5	32.7	217	41.9	28.6	15.2	14.3	217	12.8	44.0	38.5	4.6	218
24.5	33.2	25.4	16.9	693	17.3	26.8	24.7	31.2	231	40.7	28.6	16.0	14.7	231	15.6	44.2	35.5	4.8	231
25.2	33.6	24.7	16.6	652	16.1	28.1	23.5	32.3	217	41.5	29.0	15.2	14.3	217	17.9	43.6	35.3	3.2	218
23.8	34.2	23.9	18.1	602	14.9	27.9	24.4	32.8	201	41.8	29.9	14.4	13.9	201	14.5	45.0	33.0	7.5	200
23.4	34.2	25.1	17.2	692	16.9	28.1	22.5	32.5	231	41.6	28.1	15.2	15.2	231	11.7	46.5	37.8	3.9	230
24.2	34.5	24.5	16.7	693	17.3	28.1	23.4	31.2	231	42.9	27.3	15.6	14.3	231	12.6	48.1	34.6	4.8	231
23.9	34.2	24.2	17.6	652	15.2	29.0	23.0	32.7	217	41.9	28.6	15.2	14.3	217	14.7	45.0	34.4	6.0	218
23.8	33.1	25.1	18.0	650	15.7	27.8	23.1	33.3	216	41.9	28.6	15.2	14.3	217	13.8	42.9	36.9	6.5	217
23.7	33.6	25.5	17.2	693	17.7	27.7	22.5	32.0	231	42.9	27.3	15.6	14.3	231	10.4	45.9	38.5	5.2	231
22.7	34.1	25.5	17.7	648	15.7	28.2	23.1	32.9	216	42.1	28.7	14.8	14.4	216	10.2	45.4	38.4	6.0	216
23.7	34.8	24.8	16.7	693	16.9	27.7	23.8	31.6	231	40.7	28.1	16.5	14.7	231	13.4	48.5	34.2	3.9	231
26.0	32.6	25.0	16.5	693	17.7	27.7	22.9	31.6	231	42.4	27.7	15.6	14.3	231	17.7	42.4	36.4	3.5	231
24.2	34.1	23.9	17.7	648	15.7	28.2	23.1	32.9	216	41.7	29.2	14.8	14.4	216	15.3	44.9	33.8	6.0	216
24.0	34.9	24.8	16.3	693	16.9	28.6	22.5	32.0	231	42.4	27.7	15.6	14.3	231	12.6	48.5	36.4	2.6	231
25.3	33.5	24.5	16.7	693	17.3	28.1	22.5	32.0	231	42.9	27.3	15.6	14.3	231	15.6	45.0	35.5	3.9	231
24.3	33.7	24.8	17.2	638	16.0	27.2	23.5	33.3	213	41.8	29.1	14.6	14.6	213	15.1	44.8	36.3	3.8	212
25.4	33.6	23.2	17.7	693	16.5	29.0	22.5	32.0	231	42.9	27.3	15.6	14.3	231	16.9	44.6	31.6	6.9	231
24.2	34.4	23.8	17.6	652	15.7	28.6	23.0	32.7	217	41.9	28.6	15.2	14.3	217	15.1	45.9	33.0	6.0	218
24.1	34.7	23.9	17.3	652	16.6	27.6	23.0	32.7	217	41.9	28.6	15.2	14.3	217	13.8	47.7	33.5	5.0	218
23.7	35.8	23.4	17.1	667	16.2	28.8	23.4	31.5	222	42.8	27.5	15.8	14.0	222	12.1	51.1	30.9	5.8	223
24.1	35.0	24.1	16.8	648	16.7	27.3	23.1	32.9	216	42.1	28.7	14.8	14.4	216	13.4	49.1	34.3	3.2	216
24.4	35.1	23.7	16.9	616	15.0	29.1	23.8	32.0	206	41.5	29.3	15.6	13.7	205	16.6	46.8	31.7	4.9	205
23.5	36.5	24.2	15.8	620	17.0	29.1	23.3	30.6	206	42.2	28.2	16.0	13.6	206	11.5	51.9	33.2	3.4	208
25.0	34.0	23.9	17.1	648	16.7	27.3	23.1	32.9	216	42.1	28.7	14.8	14.4	216	16.2	45.8	33.8	4.2	216
23.9	35.3	23.1	17.6	648	15.7	28.2	23.6	32.4	216	42.1	28.7	14.8	14.4	216	13.9	49.1	31.0	6.0	216
23.5	35.3	24.2	17.0	652	16.6	27.6	23.0	32.7	217	41.9	28.6	15.2	14.3	217	11.9	49.5	34.4	4.1	218
24.1	34.9	24.1	16.9	693	16.9	28.6	22.5	32.0	231	42.9	27.3	15.6	14.3	231	12.6	48.9	34.2	4.3	231
24.3	34.3	25.1	16.3	686	16.6	28.4	23.1	31.9	229	41.9	28.4	15.3	14.4	229	14.5	46.1	36.8	2.6	228
25.0	33.9	24.4	16.7	693	17.3	28.1	22.9	31.6	231	42.4	27.7	15.6	14.3	231	15.2	45.9	34.6	4.3	231
24.1	33.6	25.2	17.1	648	16.2	27.8	23.6	32.4	216	41.7	29.2	14.8	14.4	216	14.4	44.0	37.0	4.6	216
23.9	33.5	25.8	16.8	648	15.7	28.2	23.6	32.4	216	41.7	29.2	15.3	13.9	216	14.4	43.1	38.4	4.2	216
24.7	33.3	25.1	16.9	693	17.3	28.1	22.9	31.6	231	42.4	27.7	15.6	14.3	231	14.3	44.2	36.8	4.8	231
22.8	33.8	26.3	17.1	624	16.3	29.3	22.1	32.2	208	41.8	28.4	16.3	13.5	208	10.1	43.8	40.4	5.8	208

AC-MF580191|Cercotrichas galactotes AC-JF498845|Copsychus malabaricus AC-JQ174627|Cyornis rubeculoides AC-JQ175559|Niltava sundara AC-EF422241|Muscicapa thalassina AC-JQ175293|Luscinia megarhynchos AC-KC789641|Luscinia svecica AC-KU973748|Calliope pectoralis AC-GQ482758|Tarsiger cyanurus AC-JQ176404|Tarsiger chrysaeus AC-JQ174846|Ficedula strophiata AC-GQ481891|Ficedula albicilla AC-GU571893|Ficedula parva AC-JX970703|Phoenicurus frontalis AC-GQ482382|Phoenicurus erythronotus AC-GU572026|Phoenicurus phoenicurus AC-GQ482376|Phoenicurus erythrogastrus AC-GQ482171|Monticola saxatilis AC-JQ175415|Monticola solitarius AC-GQ482623|Saxicola maurus AC-JQ176180|Saxicola caprata AC-JQ176181|Saxicola ferreus AC-DQ683479|Oenanthe alboniger AC-GU571994 | Oenanthe oenanthe AC-HM046870|Oenanthe lugens AC-MF795487|Oenanthe finschii AC-GU571995|Oenanthe pleschanka AC-JX255949|Oenanthe xanthoprymna AC-KP252229|Oenanthe deserti AC-JF498802|Oenanthe isabellina AC-EF515802|Zoothera dauma AC-GQ482883|Turdus viscivorus AC-GU572145|Turdus iliacus AC-MK262687|Turdus merula AC-GQ482870|Turdus ruficollis AC-KC439338|Sturnus contra

AC-EU525542 Sturnus pagodarum	22.7	33.3	26.3	17.7	693	16.0	26.8	25.1	32.0	231	41.6	28.6	15.2	14.7	231	10.4	44.6	38.5	6.5	231
AC-JQ176301 Sturnus malabaricus	22.5	34.0	25.5	17.9	652	15.2	29.0	23.0	32.7	217	41.9	28.6	15.2	14.3	217	10.6	44.5	38.1	6.9	218
AC-AY666196 Acridotheres tristis	24.3	33.0	25.2	17.5	691	17.0	28.3	22.6	32.2	230	42.6	27.4	15.7	14.3	230	13.4	43.3	37.2	6.1	231
AC-EF484196 Acridotheres fuscus	24.1	32.0	26.4	17.5	693	16.9	26.0	25.1	32.0	231	41.6	28.6	15.2	14.7	231	13.9	41.6	39.0	5.6	231
AC-KJ442637 Dicaeum erythrorhynchos	24.6	31.5	26.1	17.8	658	17.4	26.9	23.3	32.4	219	42.0	28.8	15.1	14.2	219	14.5	38.6	40.0	6.8	220
AC-MH929095 Aethopyga siparaja siparaja	24.2	32.7	26.1	17.0	652	15.2	29.0	23.0	32.7	217	41.9	28.6	15.2	14.3	217	15.6	40.4	39.9	4.1	218
AC-AB843102 Prunella collaris	25.7	31.5	26.3	16.6	693	17.8	27.4	23.0	31.7	230	42.7	27.6	15.5	14.2	232	16.5	39.4	40.3	3.9	231
AC-GQ482565 Prunella himalayana	24.7	31.9	26.3	17.1	689	17.5	27.5	23.1	31.9	229	42.6	27.4	15.7	14.3	230	13.9	40.9	40.0	5.2	230
AC-GQ482563 Prunella fulvescens	26.0	31.0	25.1	17.9	693	17.3	28.1	22.5	32.0	231	42.9	27.3	15.6	14.3	231	17.7	37.7	37.2	7.4	231
AC-GQ482560 Prunella atrogularis	25.5	31.3	25.4	17.7	693	17.7	27.7	22.1	32.5	231	42.9	27.3	15.6	14.3	231	16.0	39.0	38.5	6.5	231
AC-JF957025 Motacilla cinerea	25.3	32.0	26.0	16.7	693	16.9	28.6	22.5	32.0	231	42.4	27.7	15.6	14.3	231	16.5	39.8	39.8	3.9	231
AC-GU571985 Motacilla flava	23.8	33.2	26.7	16.4	648	15.7	28.2	23.1	32.9	216	41.7	29.2	14.8	14.4	216	13.9	42.1	42.1	1.9	216
AC-GQ482203 Motacilla citreola	26.4	30.7	26.4	16.5	693	17.3	28.1	22.5	32.0	231	42.4	27.7	15.6	14.3	231	19.5	36.4	41.1	3.0	231
AC-KY754516 Motacilla alba	25.3	31.9	26.1	16.7	693	16.9	28.6	22.5	32.0	231	42.4	27.7	15.6	14.3	231	16.5	39.4	40.3	3.9	231
AC-GQ481341 Anthus godlewskii	24.7	32.8	26.0	16.6	693	17.3	28.1	23.4	31.2	231	42.4	27.7	15.6	14.3	231	14.3	42.4	39.0	4.3	231
AC-KP252167 Anthus campestris	24.8	32.5	26.1	16.6	652	15.7	28.1	24.4	31.8	217	41.5	29.0	15.2	14.3	217	17.4	40.4	38.5	3.7	218
AC-GU571732 Anthus pratensis	22.4	34.3	26.1	17.3	648	15.3	28.7	23.6	32.4	216	42.1	28.7	14.8	14.4	216	9.7	45.4	39.8	5.1	216
AC-GQ481349 Anthus hodgsoni	23.5	33.9	26.0	16.6	693	16.9	28.1	22.5	32.5	231	42.4	27.7	15.6	14.3	231	11.3	45.9	39.8	3.0	231
AC-GU571250 Anthus cervinus	23.0	33.2	26.4	17.4	660	15.9	28.2	23.6	32.3	220	41.8	28.6	15.0	14.5	220	11.4	42.7	40.5	5.5	220
AC-GQ481365 Anthus spinoletta	22.8	34.2	25.3	17.7	693	16.5	29.0	22.5	32.0	231	42.9	27.3	15.6	14.3	231	9.1	46.3	37.7	6.9	231
AC-GQ481358 Anthus rubescens	22.9	34.6	25.8	16.6	693	16.5	29.0	22.5	32.0	231	42.9	27.3	15.6	14.3	231	9.5	47.6	39.4	3.5	231
AC-GU571754 Bombycilla garrulus	27.2	29.8	27.0	16.0	648	18.5	25.5	23.6	32.4	216	41.2	29.6	14.8	14.4	216	21.8	34.3	42.6	1.4	216
AC-KP252196 Hypocolius ampelinus	26.8	29.9	26.7	16.6	679	16.7	26.4	25.1	31.7	227	41.6	28.3	15.5	14.6	226	22.1	35.0	39.4	3.5	226
AC-MK262511 Fringilla coelebs	26.0	30.6	25.8	17.6	647	16.2	27.8	23.1	32.9	216	42.1	28.7	14.8	14.4	216	19.5	35.3	39.5	5.6	215
AC-GU571404 Fringilla montifringilla	24.7	31.9	26.7	16.7	693	16.9	27.7	23.4	32.0	231	41.6	28.6	15.6	14.3	231	15.6	39.4	41.1	3.9	231
AC-GU571829 Coccothraustes coccothraustes	24.8	30.9	27.6	16.7	648	16.2	27.8	23.6	32.4	216	42.1	28.7	14.8	14.4	216	16.2	36.1	44.4	3.2	216
AC-GQ481529 Carpodacus rubicilla	24.4	31.7	26.8	17.0	675	16.9	28.0	23.1	32.0	225	42.2	28.0	15.6	14.2	225	14.2	39.1	41.8	4.9	225
AC-EU847701 Carpodacus thura	24.0	32.0	26.8	17.2	693	16.9	26.0	25.1	32.0	231	41.6	28.6	15.2	14.7	231	13.4	41.6	40.3	4.8	231
AC-GQ482608 Eremopsaltria mongolica	23.7	32.9	26.8	16.6	693	17.7	27.7	22.5	32.0	231	42.9	27.3	15.6	14.3	231	10.4	43.7	42.4	3.5	231
AC-GQ482053 Leucosticte nemoricola	24.7	31.9	26.4	16.9	692	16.9	28.6	22.5	32.0	231	42.9	27.3	15.6	14.3	231	14.3	40.0	41.3	4.3	230
AC-GQ482049 Leucosticte brandti	23.6	33.1	26.9	16.4	685	17.1	27.6	22.8	32.5	228	42.5	27.6	15.4	14.5	228	11.4	44.1	42.4	2.2	229
AC-FJ465359 Rhodospiza obsoleta	24.8	32.3	26.1	16.9	610	15.8	29.1	23.2	32.0	203	41.9	29.1	15.8	13.3	203	16.7	38.7	39.2	5.4	204
AC-GQ481479 Linaria flavirostris	25.7	32.3	26.0	16.0	693	17.3	28.6	22.5	31.6	231	42.9	27.3	15.6	14.3	231	16.9	41.1	39.8	2.2	231
AC-GQ481455 Linaria cannabina	26.0	31.9	25.7	16.5	693	17.3	28.1	22.5	32.0	231	42.9	27.3	15.6	14.3	231	17.7	40.3	39.0	3.0	231
AC-GU571958 Loxia-curvirostra	24.8	32.3	26.4	16.5	648	15.7	28.2	23.6	32.4	216	42.1	28.7	14.8	14.4	216	16.7	39.8	40.7	2.8	216
AC-MK262089 Carduelis carduelis	24.1	33.0	26.1	16.8	648	16.7	27.3	23.1	32.9	216	42.1	28.7	14.8	14.4	216	13.4	43.1	40.3	3.2	216
AC-GQ482639 Serinus pusillus	25.3	32.3	26.2	16.2	684	17.5	27.6	22.8	32.0	228	42.1	27.6	15.8	14.5	228	16.2	41.7	39.9	2.2	228

AC-GQ481495 Spinus spinus	24.9	32.6	26.4	16.1	666	16.7	28.4	23.0	32.0	222	41.9	27.9	15.8	14.4	222	16.2	41.4	40.5	1.8	222
AC-JQ174776 Emberiza melanocephala	24.4	33.0	25.2	17.5	652	16.1	28.1	23.5	32.3	217	41.9	28.6	15.2	14.3	217	15.1	42.2	36.7	6.0	218
AC-KC439313 Emberiza bruniceps	23.8	34.3	25.3	16.6	661	15.8	29.9	23.1	31.2	221	42.7	27.7	15.9	13.6	220	12.7	45.5	36.8	5.0	220
AC-GU571867 Emberiza calandra	23.1	34.0	25.9	17.0	648	15.7	28.2	23.1	32.9	216	42.1	28.7	14.8	14.4	216	11.6	44.9	39.8	3.7	216
AC-JF499130 Emberiza fucata	24.0	34.4	25.0	16.6	649	17.1	29.2	22.7	31.0	216	43.1	27.3	16.2	13.4	216	12.0	46.5	35.9	5.5	217
AC-GQ481747 Emberiza cia	24.1	34.1	24.9	17.0	684	17.1	27.6	22.8	32.5	228	42.5	27.6	15.4	14.5	228	12.7	46.9	36.4	3.9	228
AC-GQ481766 Emberiza godlewskii	24.1	33.8	25.0	17.1	692	17.0	28.3	22.6	32.2	230	42.9	27.3	15.6	14.3	231	12.6	45.9	36.8	4.8	231
AC-KP877676 Emberiza stewarti	24.8	33.2	25.1	16.9	693	18.2	27.3	22.5	32.0	231	42.9	27.3	15.6	14.3	231	13.4	45.0	37.2	4.3	231
AC-GQ481772 Emberiza leucocephalos	23.8	33.9	24.7	17.6	693	17.3	28.1	22.5	32.0	231	42.9	27.3	15.6	14.3	231	11.3	46.3	35.9	6.5	231
AC-MF580175 Emberiza striolata	24.0	34.3	24.5	17.2	658	16.9	27.9	23.7	31.5	219	42.0	28.8	15.1	14.2	219	13.2	46.4	34.5	5.9	220
AC-GU571874 Emberiza schoeniclus	23.5	34.4	25.2	17.0	648	15.3	28.7	23.1	32.9	216	42.1	28.7	14.8	14.4	216	13.0	45.8	37.5	3.7	216
AC-EF515786 Emberiza aureola	24.3	32.7	25.4	17.6	686	17.0	27.9	22.7	32.3	229	42.4	27.9	15.3	14.4	229	13.6	42.1	38.2	6.1	228
AC-GU571872 Emberiza pusilla	23.8	33.2	25.5	17.6	648	15.7	28.2	23.1	32.9	216	42.1	28.7	14.8	14.4	216	13.4	42.6	38.4	5.6	216
AC-GQ481805 Emberiza rutila	25.4	32.2	25.3	17.2	693	18.6	26.8	22.5	32.0	231	42.9	27.3	15.6	14.3	231	14.7	42.4	37.7	5.2	231
AC-MK262682 Passer domesticus	23.6	31.2	26.9	18.4	648	16.7	27.3	23.1	32.9	216	41.7	29.2	14.8	14.4	216	12.5	37.0	42.6	7.9	216
AC-MF767304 Passer moabiticus	22.7	31.7	28.2	17.4	691	17.0	28.7	22.6	31.7	230	42.2	27.8	15.7	14.3	230	9.1	38.5	46.3	6.1	231
AC-JF957028 Passer montanus	23.4	31.6	27.4	17.6	675	16.9	28.4	22.7	32.0	225	41.8	28.4	15.6	14.2	225	11.6	37.8	44.0	6.7	225
AC-GQ482355 Petronia petronia	24.6	30.5	28.0	16.9	679	16.8	27.9	22.6	32.7	226	42.0	27.9	15.5	14.6	226	15.0	35.7	45.8	3.5	227
AC-FJ465315 Carpospiza brachydactyla	22.9	32.9	27.8	16.4	608	15.8	28.7	23.3	32.2	202	41.4	30.0	15.3	13.3	203	11.3	39.9	44.8	3.9	203
AC-GQ482176 Montifringilla nivalis	24.6	31.0	26.4	18.1	675	16.0	28.4	23.1	32.4	225	42.2	28.0	15.6	14.2	225	15.6	36.4	40.4	7.6	225
AC-MF580167 Lonchura malabarica	23.7	31.5	28.9	16.0	658	16.9	27.4	23.3	32.4	219	42.0	28.8	15.1	14.2	219	12.3	38.2	48.2	1.4	220
AC-JF498874 Lonchura punctulata	23.3	32.1	28.6	16.0	669	16.6	28.3	22.9	32.3	223	42.6	27.8	15.7	13.9	223	10.8	40.4	47.1	1.8	223
AC-KX283124 Lanius minor	27.0	28.2	26.9	17.9	655	17.4	27.5	23.9	31.2	218	41.1	28.8	15.1	15.1	219	22.5	28.4	41.7	7.3	218
Avg.	24.5	32.5	25.9	17.1	670.	716.8	28.0	23.4	31.8	223.	542.1	28.2	15.4	14.3	223.	514.6	41.4	38.9	5.1	223.7

## Appendix E

Estimates of Evolutionary Divergence between Sequences of Passeriformes of Pakistan.

Title: ALL PASSERIFORMES 24-7-23 Description Analysis ======================== Analysis Scope = Pairs of taxa Estimate Variance - -----Variance Estimation Method = None Substitution Model = ======================= Substitutions Type = Nucleotide Model/Method = Kimura 2-parameter model Substitutions to Include = d: Transitions + Transversions Rates and Patterns - -----Data Subset to Use Gaps/Missing Data Treatment = Pairwise deletion Select Codon Positions = 1st,2nd,3rd,Non-Co = 1st, 2nd, 3rd, Non-Coding No. of Sites = 992 d = Estimate [ 1] #BOLD:AAF5733|Lanius\_vittatus [ 2] #BOLD:ACZ2474|Prinia buchanani [ 3] #BOLD:ACZ2564|Alauda\_gulgula\_australis [ 4] #BOLD:AAD9870|Galerida\_cristata\_arenicola [ 5] #BOLD:ABX5008|Passer\_hispaniolensis [ 6] #BOLD:AAC0536|Sylvia\_curruca\_curruca [ 7] #BOLD:AAU3934|Tephrodornis\_pondicerianus [ 8] #BOLD:ACH6125|Dendrocitta\_vagabunda\_saturatior [ 9] #BOLD:AAR9140|Corvus splendens splendens [ 10] #BOLD:AAC1536|Phoenicurus ochruros [ 11] #BOLD:AAV9282|Chrysomma\_sinense [ 12] #BOLD:ABZ8019|Lanius schach schach [ 13] #BOLD:ACZ2475|Prinia socialis socialis [ 14] #BOLD:AAX4494|Melanocorypha\_bimaculata [ 15] #BOLD:ACE4748|Acridotheres\_ginginianus [ 16] #BOLD:ACS3101|Cisticola juncidis [ 17] #BOLD:AAE0119|Pastor roseus [ 18] #BOLD:ACZ1830|Emberiza buchanani [ 19] #BOLD:ACH8855|Eremopterix griseus [ 20] #BOLD:AAB3874|Carpodacus erythrinus

[ 21] #BOLD:ACZ2757|Oriolus oriolus [ 22] #BOLD:AAB5621|Corvus\_corax\_corax [ 23] #BOLD:AAL2706|Pericrocotus\_cinnamomeus [ 24] #BOLD:ACZ2474|Prinia\_hodgsonii [ 25] #BOLD:AAB2042|Zosterops\_palpebrosus\_palpebrosus [ 26] #BOLD:AAN3860|Pycnonotus\_leucogenys [ 27] #BOLD:ACH0131|Phylloscopus\_affinis [ 28] #BOLD:ABW5160|Corvus\_machorynchus [ 29] #BOLD:ACE7266|Copsychus\_saularis\_saularis [ 30] #BOLD:AAY1381|Trochalopteron\_lineatum\_lineatum [ 31] #BOLD:ACZ3140|Parus\_major [ 32] #BOLD:ACZ2846|Urocissa flavirostris flavirostris [ 33] #BOLD:ACZ2835|Stachyridopsis pyrrhops [ 34] #BOLD:ACS4664|Terpsiphone\_paradisi\_paradisi [ 35] #BOLD:AAC5713|Myophonus caeruleus [ 36] #BOLD:ACZ2808|Hypsipetes leucocephalus [ 37] #BOLD:AAI9717|Dicrurus leucophaeus [ 38] #BOLD:ACZ3094|Emberiza lathami [ 39] #BOLD:AAC1399|Passer cinnamomeus rutilans [ 40] #BOLD:ABW5160|Corvus macrorhynchos [ 41] #BOLD:ACH8281|Orthotomus sutorius [ 42] #BOLD:AAW9936|Oenanthe picata [ 43] #BOLD:ACZ2562|Copsychus\_fulicatus [ 44] #AC-\_AB843703|Pitta\_brachyura [ 45] #AC-JQ173906|Aegithina\_tiphia [ 46] #AC-MH938034|Lanius collurio [ 47] #AC-GQ482020|Lanius isabellinus [ 48] #AC-GQ482013|Lanius\_cristatus [ 49] #AC-EF621598|Lanius\_tephronotus [ 50] #AC-JF498786|Lanius\_excubitor [ 51] #AC-GQ482278|Oriolus\_chinensis [ 52] #AC-JQ174696|Dicrurus\_macrocercus [ 53] #AC-JQ174691|Dicrurus\_hottentottus [ 54] #AC-JQ176131|Rhipidura\_aureola [ 55] #AC-KC354929|Hypothymis\_azurea [ 56] #AC-GQ481963|Garrulus\_glandarius [ 57] #AC-JQ176603|Urocissa\_erythrorhyncha [ 58] #AC-GQ482478|Pica pica [ 59] #AC-GU571501|Nucifraga\_caryocatactes [ 60] #AC-GQ482576|Pyrrhocorax\_pyrrhocorax [ 61] #AC-GQ482571|Pyrrhocorax\_graculus [ 62] #AC-GQ481647|Corvus\_monedula [ 63] #AC-GQ481640|Corvus\_frugilegus [ 64] #AC-GU571521|Panurus\_biarmicus [ 65] #AC-FJ465300|Ammomanes\_deserti [ 66] #AC-MF580208|Eremopterix\_nigriceps [ 67] #AC-GQ481854|Eremophila\_alpestris [ 68] #AC-GQ481412|Calandrella\_acutirostris [ 69] #AC-GQ481420|Calandrella\_rufescens [ 70] #AC-GQ482616|Riparia\_riparia [ 71] #AC-GQ482609|Riparia diluta [ 72] #AC-GQ482570|Ptyonoprogne rupestris [ 73] #AC-MF580225|Ptyonoprogne fuligula [ 74] #AC-KY754510|Hirundo rustica

[ 75] #AC-GU460335|Hirundo smithii [ 76] #AC-GQ481533|Cecropis\_daurica [ 77] #AC-GQ481695|Delichon urbicum [ 78] #AC-GQ481692|Delichon\_dasypus [ 79] #AC-JQ176135|Rhipidura\_hypoxantha [ 80] #AC-JQ174591|Culicicapa\_ceylonensis [ 81] #AC-JX221707|Cephalopyrus\_flammiceps [ 82] #AC-JX508791|Periparus\_ater [ 83] #AC-HQ228194|Parus\_rubidiventris [ 84] #AC-HM185314|Lophophanes\_dichrous [ 85] #AC-GQ481683|Cyanistes\_cyanus [ 86] #AC-JX849735|Parus\_monticolus [ 87] #AC-GU572079|Remiz pendulinus [ 88] #AC-HQ605288 | Aegithalos concinnus [ 89] #AC-KJ467143|Sitta cashmirensis [ 90] #AC-KJ467157|Sitta tephronota [ 91] #AC-KJ467146|Sitta frontalis [ 92] #AC-GQ482777|Chodroma muraria [ 93] #AC-KP282529|Certhia hodgsoni [ 94] #AC-KP772837|Troglodytes troglodytes [ 95] #AC-GU571819|Cinclus cinclus [ 96] #AC-GQ481589|Cinclus pallasii [ 97] #AC-JF498897|Pycnonotus\_cafer [ 98] #AC-KX529958|Pycnonotus\_jocosus [ 99] #AC-GQ482599|Regulus regulus [100] #AC-GQ481547|Cettia cetti [101] #AC-GU572031|Phylloscopus humei [102] #AC-MK360480|Phylloscopus\_griseolus [103] #AC-KU870799|Phylloscopus\_collybita [104] #AC-GQ482461|Phylloscopus\_trochiloides [105] #AC-HQ608867|Phylloscopus\_magnirostris [106] #AC-HQ608865|Phylloscopus\_reguloides [107] #AC-GQ481975|Iduna\_caligata [108] #AC-KJ453177|Iduna\_rama [109] #AC-KJ453167|Hippolais\_languida [110] #AC-GQ481267 | Acrocephalus\_melanopogon [111] #AC-GU571212|Acrocephalus\_agricola [112] #AC-KJ453132|Acrocephalus concinens [113] #AC-AB893942|Acrocephalus dumetorum [114] #AC-GQ481283|Acrocephalus scirpaceus [115] #AC-FR847226|Acrocephalus\_arundinaceus [116] #AC-KJ453157|Acrocephalus\_stentoreus [117] #AC-JF957023|Megalurus\_palustris [118] #AC-GU571955|Locustella\_naevia [119] #AC-HQ608884|Prinia\_crinigera [120] #AC-KU722459|Prinia\_gracilis [121] #AC-HQ608883|Prinia\_flaviventris [122] #AC-KT240052|Prinia\_inornata [123] #AC-JQ176322|Sylvia\_nana [124] #AC-GU572123|Sylvia\_nisoria [125] #AC-GU571644|Sylvia crassirostris [126] #AC-JQ176321|Sylvia mystacea [127] #AC-GU572120|Sylvia communis [128] #AC-JQ175951|Pomatorhinus erythrogenys [129] #AC-MK069051|Laticilla burnesii [130] #AC-JQ175707 | Pellorneum ruficeps [131] #AC-JQ173957|Alcippe poioicephala [132] #AC-MH265887|Argya earlei earlei [133] #AC-KC439341|Turdoides malcolmi [134] #AC-MH265810|Trochalopteron\_erythrocephalum\_woodi [135] #AC-EU447047|Heterophasia\_capistrata\_nigriceps [136] #AC-GQ482226|Muscicapa sibirica [137] #AC-JF498868|Leiothrix lutea [138] #AC-GQ482216|Muscicapa dauurica [139] #AC-GU571987|Muscicapa\_striata [140] #AC-MF580191|Cercotrichas\_galactotes [141] #AC-JF498845|Copsychus malabaricus [142] #AC-JQ174627|Cyornis rubeculoides [143] #AC-JQ175559|Niltava\_sundara [144] #AC-EF422241|Muscicapa\_thalassina [145] #AC-JQ175293|Luscinia\_megarhynchos [146] #AC-KC789641|Luscinia\_svecica [147] #AC-KU973748|Calliope pectoralis [148] #AC-GQ482758|Tarsiger cyanurus [149] #AC-JQ176404|Tarsiger chrysaeus [150] #AC-JQ174846|Ficedula strophiata [151] #AC-GU571893|Ficedula parva [152] #AC-JX970703|Phoenicurus\_frontalis [153] #AC-GQ482382|Phoenicurus\_erythronotus [154] #AC-GU572026|Phoenicurus\_phoenicurus [155] #AC-GQ482376|Phoenicurus erythrogastrus [156] #AC-GQ482171|Monticola saxatilis [157] #AC-JQ175415|Monticola solitarius [158] #AC-GQ482623|Saxicola maurus [159] #AC-JQ176180|Saxicola caprata [160] #AC-JQ176181|Saxicola ferreus [161] #AC-DQ683479|Oenanthe alboniger [162] #AC-GU571994|Oenanthe oenanthe [163] #AC-HM046870|Oenanthe lugens [164] #AC-MF795487|Oenanthe finschii [165] #AC-GU571995|Oenanthe pleschanka [166] #AC-JX255949|Oenanthe xanthoprymna [167] #AC-GQ481891|Ficedula albicilla [168] #AC-KP252229|Oenanthe\_deserti [169] #AC-JF498802|Oenanthe\_isabellina [170] #AC-EF515802|Zoothera\_dauma [171] #AC-GQ482883|Turdus\_viscivorus [172] #AC-GU572145|Turdus iliacus [173] #AC-MK262687|Turdus merula [174] #AC-GQ482870|Turdus\_ruficollis [175] #AC-KC439338|Sturnus\_contra [176] #AC-EU525542|Sturnus\_pagodarum [177] #AC-JQ176301|Sturnus\_malabaricus [178] #AC-AY666196|Acridotheres\_tristis [179] #AC-EF484196|Acridotheres\_fuscus [180] #AC-KJ442637|Dicaeum\_erythrorhynchos [181] #AC-MH929095|Aethopyga\_siparaja\_siparaja [182] #AC-AB843102|Prunella\_collaris

[183] #AC-GQ482565|Prunella himalayana [184] #AC-GQ482563|Prunella fulvescens [185] #AC-GQ482560|Prunella\_atrogularis [186] #AC-JF957025|Motacilla\_cinerea [187] #AC-GU571985|Motacilla\_flava [188] #AC-GQ482203 |Motacilla\_citreola [189] #AC-KY754516|Motacilla alba [190] #AC-GQ481341|Anthus\_godlewskii [191] #AC-KP252167 | Anthus campestris [192] #AC-GU571732|Anthus pratensis [193] #AC-GQ481349|Anthus hodgsoni [194] #AC-GU571250 | Anthus cervinus [195] #AC-GQ481365|Anthus\_spinoletta [196] #AC-GQ481358|Anthus\_rubescens [197] #AC-GU571754|Bombycilla\_garrulus [198] #AC-KP252196|Hypocolius\_ampelinus [199] #AC-MK262511|Fringilla\_coelebs [200] #AC-GU571404|Fringilla montifringilla [201] #AC-GU571829|Coccothraustes\_coccothraustes [202] #AC-GQ481529|Carpodacus\_rubicilla [203] #AC-EU847701|Carpodacus thura [204] #AC-GQ482608|Eremopsaltria\_mongolica [205] #AC-GQ482053|Leucosticte nemoricola [206] #AC-GQ482049|Leucosticte brandti [207] #AC-FJ465359|Rhodospiza\_obsoleta [208] #AC-GQ481479|Linaria\_flavirostris [209] #AC-GQ481455|Linaria cannabina [210] #AC-GU571958|Loxia-curvirostra [211] #AC-MK262089|Carduelis\_carduelis [212] #AC-GQ482639|Serinus pusillus [213] #AC-GQ481495|Spinus spinus [214] #AC-JQ174776|Emberiza melanocephala [215] #AC-KC439313|Emberiza bruniceps [216] #AC-GU571867|Emberiza\_calandra [217] #AC-JF499130|Emberiza\_fucata [218] #AC-GQ481747|Emberiza\_cia [219] #AC-GQ481766|Emberiza\_godlewskii [220] #AC-KP877676|Emberiza\_stewarti [221] #AC-GQ481772|Emberiza\_leucocephalos [222] #AC-MF580175|Emberiza\_striolata [223] #AC-GU571874|Emberiza\_schoeniclus [224] #AC-EF515786|Emberiza aureola [225] #AC-GU571872|Emberiza pusilla [226] #AC-GQ481805|Emberiza\_rutila [227] #AC-MK262682|Passer\_domesticus [228] #AC-MF767304|Passer\_moabiticus [229] #AC-JF957028|Passer\_montanus [230] #AC-GQ482355|Petronia petronia [231] #AC-FJ465315|Carpospiza\_brachydactyla [232] #AC-GQ482176|Montifringilla nivalis [233] #AC-MF580167|Lonchura malabarica [234] #AC-JF498874|Lonchura punctulata [235] #AC-KX283124|Lanius minor

1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 ] [ 1] [ 2] 0.19 [ 3] 0.21 0.22 [ 4] 0.20 0.17 0.12 [ 5] 0.21 0.19 0.19 0.18 [ 6] 0.20 0.17 0.19 0.16 0.18 [ 7] 0.18 0.22 0.22 0.18 0.25 0.19 [ 8] 0.18 0.20 0.21 0.18 0.20 0.18 0.19 [ 9] 0.13 0.16 0.22 0.19 0.18 0.16 0.18 0.16 [ 10] 0.20 0.20 0.17 0.19 0.19 0.19 0.21 0.21 0.18 [ 11] 0.20 0.18 0.16 0.16 0.21 0.17 0.21 0.18 0.18 0.17 [ 12] 0.05 0.18 0.23 0.20 0.20 0.20 0.19 0.19 0.14 0.20 0.21 [ 13] 0.21 0.13 0.22 0.17 0.21 0.19 0.22 0.20 0.19 0.19 0.21 0.21 [ 14] 0.21 0.20 0.13 0.13 0.20 0.18 0.19 0.21 0.19 0.20 0.18 0.21 0.20 [ 15] 0.21 0.15 0.17 0.14 0.17 0.16 0.16 0.20 0.17 0.16 0.17 0.20 0.18 0.17 [ 16] 0.18 0.16 0.22 0.18 0.19 0.16 0.19 0.19 0.15 0.20 0.19 0.19 0.19 0.19 0.17 [ 17] 0.19 0.18 0.18 0.16 0.18 0.17 0.16 0.19 0.19 0.16 0.17 0.18 0.18 0.16 0.11 0.17 [ 18] 0.21 0.21 0.15 0.16 0.16 0.19 0.21 0.20 0.19 0.17 0.17 0.22 0.19 0.18 0.16 0.21 0.18 [ 19] 0.19 0.18 0.12 0.14 0.17 0.19 0.20 0.20 0.18 0.15 0.16 0.18 0.21 0.16 0.17 0.19 0.16 0.17 [ 20] 0.19 0.20 0.21 0.17 0.17 0.18 0.23 0.20 0.19 0.21 0.17 0.19 0.20 0.20 0.18 0.20 0.18 0.14 0.17 [21] 0.18 0.20 0.19 0.17 0.19 0.17 0.19 0.20 0.18 0.20 0.22 0.17 0.21 0.20 0.18 0.18 0.19 0.17 0.18 0.18 [ 22] 0.13 0.17 0.18 0.18 0.19 0.18 0.18 0.16 0.08 0.17 0.18 0.14 0.19 0.18 0.18 0.14 0.17 0.21 0.18 0.20 0.19 [23] 0.18 0.21 0.19 0.21 0.18 0.19 0.18 0.21 0.19 0.18 0.18 0.18 0.17 0.21 0.19 0.19 0.19 0.17 0.17 0.18 0.17 0.19 0.19 0.18 [24] 0.20 0.00 0.22 0.17 0.18 0.17 0.22 0.20 0.16 0.20 0.19 0.18 0.13 0.20 0.15 0.16 0.17 0.21 0.18 0.20 0.21 0.16 0.20 [25] 0.19 0.21 0.19 0.18 0.17 0.16 0.22 0.18 0.18 0.16 0.17 0.18 0.19 0.16 0.17 0.20 0.16 0.16 0.19 0.20 0.17 0.16 0.19 0.21 [26] 0.20 0.19 0.17 0.16 0.15 0.18 0.20 0.18 0.18 0.16 0.16 0.20 0.20 0.17 0.17 0.19 0.17 0.15 0.18 0.17 0.19 0.16 0.17 0.19 0.14 [27] 0.20 0.21 0.18 0.18 0.22 0.18 0.21 0.19 0.19 0.18 0.18 0.19 0.20 0.18 0.17 0.20 0.18 0.17 0.20 0.19 0.19 0.19 0.19 0.20 0.21 0.18 0.19 [28] 0.13 0.17 0.19 0.18 0.19 0.16 0.19 0.16 0.04 0.18 0.17 0.15 0.19 0.18 0.17 0.16 0.18 0.20 0.16 0.20 0.17 0.07 0.18 0.16 0.17 0.16 0.19 [29] 0.23 0.21 0.17 0.17 0.19 0.21 0.19 0.21 0.21 0.15 0.19 0.22 0.20 0.18 0.14 0.21 0.15 0.16 0.16 0.21 0.18 0.21 0.17 0.22 0.17 0.17 0.21 0.21 0.21 [ 30] 0.17 0.16 0.16 0.15 0.16 0.17 0.19 0.16 0.19 0.17 0.15 0.18 0.17 0.16 0.15 0.15 0.16 0.15 0.17 0.19 0.18 0.16 0.17 0.17 0.12 0.15 0.14 0.17 0.18
[31] 0.22 0.18 0.16 0.18 0.18 0.16 0.19 0.21 0.18 0.18 0.15 0.22 0.19 0.17 0.16 0.18 0.16 0.16 0.17 0.18 0.20 0.19 0.21 0.19 0.16 0.15 0.17 0.17 0.17 0.15 [ 32] 0.15 0.19 0.20 0.19 0.18 0.18 0.20 0.14 0.15 0.18 0.17 0.17 0.19 0.21 0.19 0.15 0.18 0.20 0.20 0.20 0.18 0.12 0.19 0.19 0.18 0.16 0.21 0.13 0.21 0.15 0.20 [33] 0.18 0.21 0.20 0.18 0.21 0.17 0.20 0.19 0.19 0.17 0.18 0.19 0.21 0.21 0.18 0.20 0.17 0.19 0.21 0.19 0.21 0.18 0.21 0.18 0.21 0.18 0.17 0.19 0.17 0.19 0.17 0.19 0.17 0.18 0.18 [ 34] 0.17 0.20 0.20 0.19 0.21 0.19 0.15 0.18 0.14 0.19 0.21 0.17 0.20 0.19 0.18 0.16 0.16 0.19 0.20 0.21 0.18 0.16 0.18 0.20 0.18 0.20 0.20 0.15 0.19 0.17 0.20 0.18 0.20 [35] 0.19 0.20 0.19 0.16 0.18 0.17 0.20 0.21 0.18 0.15 0.18 0.19 0.19 0.18 0.14 0.19 0.14 0.16 0.19 0.16 0.18 0.21 0.21 0.20 0.18 0.18 0.18 0.18 0.18 0.15 0.16 0.17 0.18 0.20 0.19 [36] 0.21 0.19 0.19 0.19 0.19 0.19 0.17 0.20 0.20 0.19 0.18 0.17 0.21 0.20 0.19 0.16 0.17 0.17 0.18 0.20 0.22 0.19 0.19 0.19 0.19 0.19 0.16 0.17 0.18 0.18 0.16 0.15 0.17 0.18 0.20 0.18 [ 37] 0.17 0.19 0.21 0.19 0.20 0.19 0.17 0.18 0.15 0.21 0.21 0.19 0.20 0.21 0.18 0.18 0.19 0.19 0.21 0.20 0.19 0.16 0.18 0.20 0.19 0.19 0.20 0.16 0.20 0.17 0.20 0.17 0.21 0.18 0.19 0.19 0.17 [ 38] 0.18 0.19 0.16 0.15 0.14 0.18 0.21 0.20 0.19 0.17 0.17 0.17 0.17 0.19 0.14 0.20 0.15 0.12 0.17 0.14 0.15 0.18 0.19 0.18 0.14 0.17 0.16 0.19 0.18 0.15 0.16 0.18 0.16 0.20 0.17 0.19 0.20 [ 39] 0.21 0.17 0.20 0.19 0.10 0.16 0.21 0.20 0.17 0.18 0.19 0.23 0.19 0.21 0.15 0.17 0.16 0.16 0.18 0.16 0.20 0.16 0.20 0.17 0.18 0.16 0.21 0.16 0.15 0.15 0.15 0.15 0.18 0.19 0.18 0.18 0.19 0.14 [40] 0.21 0.16 0.12 0.09 0.19 0.17 0.21 0.20 0.19 0.19 0.17 0.21 0.19 0.10 0.16 0.18 0.16 0.15 0.14 0.18 0.17 0.19 0.19 0.17 0.18 0.16 0.18 0.17 0.17 0.16 0.16 0.21 0.19 0.20 0.16 0.18 0.20 0.16 0.20 0.16 0.20 [ 41] 0.19 0.13 0.18 0.14 0.17 0.17 0.20 0.20 0.17 0.19 0.18 0.18 0.16 0.16 0.16 0.16 0.12 0.16 0.19 0.19 0.18 0.17 0.16 0.18 0.18 0.16 0.19 0.15 0.20 0.17 0.17 0.17 0.17 0.18 0.17 0.16 0.18 0.14 0.18 0.15 [42] 0.21 0.12 0.18 0.18 0.20 0.19 0.20 0.20 0.21 0.13 0.17 0.23 0.21 0.18 0.17 0.19 0.15 0.15 0.17 0.21 0.18 0.18 0.20 0.21 0.16 0.15 0.19 0.20 0.18 0.18 0.18 0.18 0.20 0.16 0.18 0.20 0.16 0.18 0.17 0.19 [43] 0.20 0.17 0.17 0.17 0.17 0.19 0.16 0.20 0.17 0.14 0.18 0.20 0.17 0.14 0.19 0.14 0.19 0.14 0.17 0.16 0.19 0.19 0.17 0.20 0.18 0.15 0.18 0.14 0.16 0.15 0.18 0.21 0.17 0.17 0.14 0.19 0.17 0.18 0.17 0.17 0.16 0.20 0.18 0.19 0.19 0.21 0.20 [47] 0.06 0.19 0.22 0.20 0.20 0.21 0.21 0.21 0.21 0.17 0.20 0.22 0.07 0.22 0.20 0.21 0.17 0.18 0.21 0.19 0.18 0.18 0.18 0.15 0.18 0.19 0.19 0.19 0.21 0.16 0.21 0.17 0.21 0.15 0.20 0.20 0.19 0.20 0.19 0.20 0.21 0.21 0.19 0.22 0.20 0.22 0.18 0.02 0.20 0.21 0.19 0.08 0.08 [ 49] 0.06 0.19 0.24 0.20 0.20 0.20 0.20 0.19 0.15 0.20 0.22 0.05 0.22 0.21 0.19 0.18 0.18 0.22 0.19 0.18 0.16 0.18 0.20 0.19 0.20 0.20 0.20 0.16 0.23 0.18 0.20 0.17 0.20 0.19 0.18 0.21 0.18 0.21 0.22 0.22 0.20 0.20 0.19 0.21 0.19 0.07 0.07 0.02 [ 50] 0.10 0.18 0.20 0.18 0.19 0.21 0.19 0.18 0.14 0.18 0.19 0.11 0.20 0.21 0.21 0.21 0.12 0.18 0.19 0.18 0.20 0.19 0.18 0.18 0.18 0.18 0.19 0.14 0.21 0.16 0.20 0.16 0.17 0.16 0.21 0.19 0.17 0.18 0.19 0.17 0.18 0.19 0.17 0.20 0.18 0.19 0.20 0.11 0.11 0.10 0.11 0.18 0.20 0.17 0.19 0.19 0.20 0.18 0.20 0.17 0.18 0.14 0.17 0.17 0.15 0.17 0.16 0.20 [ 53] 0.22 0.23 0.25 0.22 0.20 0.18 0.19 0.19 0.19 0.17 0.24 0.21 0.22 0.23 0.20 0.19 0.18 0.23 0.24 0.22 0.21 0.17 0.21 0.23 0.20 0.22 0.22 0.17 0.21 0.21 0.22 0.19 0.21 0.18 0.20 0.19 0.13 0.22 0.19 0.23 0.20 0.23 0.22 0.21 0.17 0.21 0.21 0.20 0.20 0.20 0.22 0.14 [54] 0.15 0.21 0.19 0.20 0.18 0.19 0.14 0.17 0.15 0.17 0.19 0.15 0.22 0.21 0.16 0.17 0.17 0.17 0.18 0.17 0.17 0.15 0.16 0.21 0.18 0.17 0.19 0.15 0.20 0.19 0.20 0.15 0.20 0.16 0.18 0.18 0.18 0.15 0.19 0.19 0.22 0.18 0.19 0.15 0.19 0.18 0.16 0.15 0.16 0.16 0.12 0.17 0.15 0.17 [ 55] 0.15 0.17 0.20 0.18 0.18 0.18 0.18 0.17 0.17 0.14 0.19 0.20 0.16 0.20 0.19 0.15 0.16 0.19 0.18 0.18 0.18 0.18 0.15 0.17 0.17 0.19 0.14 0.20 0.17 0.17 0.17 0.17 0.19 0.12 0.18 0.18 0.18 0.18 0.18 0.17 0.20 0.18 0.20 0.15 0.16 0.16 0.15 0.15 0.16 0.16 0.18 0.19 0.15 [56] 0.13 0.22 0.20 0.17 0.21 0.18 0.17 0.13 0.21 0.18 0.14 0.21 0.21 0.21 0.20 0.19 0.20 0.21 0.19 0.20 0.18 0.12 0.21 0.21 0.20 0.19 0.18 0.12 0.22 0.16 0.20 0.14 0.16 0.17 0.22 0.19 0.18 0.17 0.22 0.19 0.18 0.17 0.19 0.21 0.18 0.20 0.19 0.21 0.19 0.17 0.16 0.16 0.16 0.14 0.19 0.20 0.20 0.17 0.17

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0.18 0.21 0.19 0.20 0.21 0.20 0.18 0.22 0.20 0.19 0.23 0.19 0.20 0.20 0.18 0.19 0.18 0.19 0.17 0.21 0.21 0.20 0.21 0.18 0.19 0.18 0.15 0.15 0.15 0.19 0.18 0.17 0.19 0.14 0.10 0.18 0.24 0.22 0.23 0.22 0.21 0.22 0.21 0.24 0.25 0.21 0.24 0.25 0.21 0.24 0.22 0.21 0.24 0.21 0.20 0.20 0.21 0.21 0.20 0.20 0.21 0.19 0.19 0.20 0.21 0.19 0.25 0.24 0.22 0.22 0.19 0.19 0.20 [ 80] 0.20 0.21 0.17 0.18 0.17 0.18 0.23 0.21 0.19 0.18 0.19 0.19 0.20 0.17 0.17 0.22 0.17 0.14 0.19 0.16 0.18 0.21 0.22 0.15 0.18 0.18 0.20 0.15 0.18 0.19 0.20 0.19 0.19 0.16 0.17 0.18 0.17 0.18 0.17 0.18 0.17 0.18 0.20 0.19 0.19 0.20 0.21 0.19 0.19 0.19 0.17 0.16 0.19 0.19 0.21 0.19 0.20 0.20 0.17 0.17 0.15 0.18 0.19 0.15 0.19 0.17 0.17 0.20 0.20 0.21 0.20 0.22 0.20 0.21 0.18 0.18 0.20 0.20 0.14 0.18 0.12 0.19 0.19 0.19 0.20 0.15 0.18 0.22 0.18 0.19 0.20 0.17 0.18 0.19 0.18 0.19 0.18 0.17 0.18 0.15 0.16 0.14 0.15 0.16 0.16 0.16 0.15 0.22 0.22 0.17 0.18 0.17 0.18 0.16 0.17 0.18 0.18 0.18 0.14 0.18 0.18 0.18 0.18 0.18 0.18 0.17 0.18 0.18 0.22 0.17 0.20 0.20 0.15 0.18 0.16 0.18 0.16 0.18 0.15 0.16 0.14 0.13 0.16 0.14 0.17 0.16 0.22 0.21 0.18 0.18 0.18 0.17 0.17 0.17 0.17 0.17 0.16 0.04 [84] 0.20 0.18 0.15 0.15 0.15 0.16 0.19 0.21 0.21 0.21 0.21 0.18 0.17 0.22 0.20 0.17 0.15 0.20 0.16 0.15 0.17 0.17 0.20 0.19 0.20 0.19 0.19 0.16 0.17 0.18 0.14 0.11 0.17 0.19 0.20 0.17 0.19 0.22 0.17 0.16 0.17 0.16 0.17 0.16 0.15 0.20 0.19 0.21 0.19 0.19 0.19 0.20 0.20 0.20 0.20 0.22 0.21 0.19 0.20 0.18 0.19 0.18 0.20 0.19 0.20 0.20 0.20 0.16 0.16 0.16 0.15 0.16 0.16 0.15 0.21 0.21 0.18 0.18 0.17 0.18 0.17 0.16 0.18 0.18 0.11 0.11 [ 86] 0.18 0.17 0.14 0.17 0.16 0.19 0.22 0.19 0.18 0.14 0.20 0.18 0.17 0.14 0.16 0.16 0.16 0.16 0.19 0.20 0.19 0.19 0.17 0.17 0.15 0.16 0.18 0.14 0.05 0.21 0.18 0.22 0.14 0.17 0.19 0.16 0.15 0.16 0.13 0.19 0.15 0.15 0.21 0.18 0.18 0.18 0.18 0.18 0.16 0.17 0.18 0.22 0.17 0.20 0.18 0.19 0.20 0.19 0.18 0.18 0.20 0.21 0.15 0.15 0.15 0.15 0.15 0.16 0.16 0.15 0.22 0.22 0.22 0.20 0.19 0.18 0.17 0.16 0.16 0.16 0.16 0.10 0.09 0.12 0.18 0.19 0.19 0.23 0.23 0.22 0.21 0.22 0.18 0.21 0.22 0.20 0.21 0.22 0.20 0.17 0.20 0.19 0.19 0.19 0.21 0.21 0.21 0.21 0.17 0.16 0.17 0.16 0.18 0.17 0.25 0.23 0.20 0.20 0.19 0.19 0.19 0.19 0.19 0.19 0.15 0.14 0.13 0.15 0.12 0.20 0.21 0.19 0.18 0.14 0.19 0.18 0.18 0.19 0.19 0.18 0.18 0.20 0.17 0.17 0.17 0.19 0.15 0.17 0.16 0.17 0.18 0.18 0.17 0.17 0.17 0.17 0.17 0.19 0.20 0.19 0.20 0.20 0.20 0.20 0.20 0.19 0.21 0.17 0.18 0.15 0.15 0.17 0.19 0.16 0.17 0.19 [ 90] 0.22 0.20 0.18 0.19 0.19 0.17 0.19 0.18 0.19 0.16 0.24 0.22 0.19 0.18 0.15 0.16 0.18 0.19 0.20 0.18 0.18 0.20 0.19 0.18 0.17 0.17 0.19 0.15 0.16 0.20 0.20 0.20 0.18 0.16 0.17 0.18 0.17 0.18 0.17 0.18 0.17 0.16 0.15 0.17 0.19 0.14 0.18 0.20 0.23 0.14 0.17 [92] 0.21 0.20 0.18 0.19 0.20 0.23 0.19 0.21 0.19 0.19 0.19 0.21 0.21 0.21 0.21 0.21 0.17 0.17 0.17 0.19 0.21 0.20 0.19 0.18 0.21 0.20 0.19 0.17 0.20 0.18 0.15 0.18 0.20 0.20 0.20 0.20 0.20 0.18 0.18 0.19 0.21 0.20 0.18 0.17 0.19 0.21 0.19 0.17 0.18 [ 93] 0.20 0.20 0.20 0.17 0.24 0.21 0.20 0.18 0.19 0.21 0.23 0.18 0.17 0.22 0.19 0.15 0.19 0.20 0.20 0.20 0.23 0.21 0.18 0.16 0.18 0.21 0.19 0.16 0.20 0.19 0.21 0.21 0.21 0.21 0.19 0.19 0.19 0.19 0.20 0.16 0.18 0.20 0.21 0.20 0.21 0.20 0.21 0.20 0.21 0.22 0.24 0.19 0.22 0.24 0.19 0.22 0.22 0.20 0.20 0.20 0.20 0.21 0.20 0.18 0.17 0.18 0.19 0.19 0.20 0.22 0.22 0.22 0.22 0.23 0.21 0.20 0.21 0.21 0.21 0.21 0.21 0.18 0.21 0.18 0.16 0.19 0.17

[78] 0.19 0.20 0.20 0.19 0.20 0.21 0.19 0.20 0.21 0.19 0.20 0.21 0.18 0.18 0.18 0.18 0.19 0.19 0.20 0.19 0.20 0.19 0.20 0.21 0.20 0.21 0.21 0.19 0.17 0.22 0.21 0.16 0.18 0.20 0.20 0.20 0.19 0.20 0.22 0.18 0.21 0.20 0.20 0.17

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[ 99] 0.21 0.18 0.20 0.19 0.21 0.20 0.23 0.21 0.19 0.21 0.18 0.20 0.21 0.20 0.18 0.20 0.21 0.19 0.22 0.20 0.18 0.22 0.19 0.20 0.21 0.21 0.20 0.21 0.20 0.21 0.20 0.21 0.20 0.19 0.21 0.20 0.18 0.20 0.18 0.20 0.18 0.19 0.24 0.20 0.21 0.22 0.20 0.19 0.22 0.21 0.20 0.21 0.20 0.21 0.19 0.21 0.24 0.19 0.22 0.19 0.25 0.19 0.21 0.12 0.22 0.23 0.18 0.20 0.20 0.19 0.20 0.21 0.22 0.23 0.20 0.21 0.21 0.21 0.21 0.20 0.22 0.19 0.20 0.19 0.20 0.20 0.20

[100] 0.19 0.20 0.18 0.15 0.21 0.18 0.22 0.19 0.18 0.17 0.21 0.21 0.19 0.18 0.21 0.19 0.18 0.21 0.17 0.19 0.20 0.21 0.18 0.21 0.20 0.18 0.17 0.19 0.16 0.17 0.18 0.18 0.21 0.19 0.19 0.20 0.18 0.21 0.16 0.18 0.19 0.18 0.21 0.20 0.20 0.21 0.20 0.21 0.20 0.19 0.22 0.19 0.24 0.20 0.19 0.19 0.19 0.18 0.19 0.17 0.21 0.17 0.20 0.19 0.19 0.19 0.12 0.16 0.17 0.18 0.18 0.19 0.22 0.23 0.21 0.20 0.19 0.18 0.19 0.18 0.19 0.18 0.16 0.17 0.18

[101] 0.20 0.19 0.18 0.17 0.19 0.20 0.20 0.22 0.19 0.18 0.16 0.21 0.21 0.21 0.17 0.19 0.16 0.15 0.18 0.20 0.20 0.18 0.17 0.20 0.17 0.16 0.18 0.17 0.15 0.17 0.21 0.18 0.20 0.18 0.16 0.21 0.16 0.18 0.16 0.18 0.16 0.18 0.17 

[102] 0.20 0.20 0.17 0.17 0.20 0.19 0.21 0.19 0.21 0.19 0.21 0.17 0.17 0.19 0.19 0.20 0.17 0.21 0.18 0.17 0.17 0.21 0.18 0.17 0.19 0.15 0.15 0.19 0.19 0.15 0.16 0.18 0.20 0.22 0.18 0.18 0.19 0.19 0.17 0.18 0.18 0.18 0.18 0.18 

(104) 0.21 0.19 0.18 0.20 0.20 0.17 0.21 0.20 0.21 0.20 0.21 0.16 0.18 0.21 0.20 0.19 0.16 0.20 0.18 0.17 0.17 0.20 0.20 0.20 0.18 0.20 0.17 0.18 0.13 0.20 0.17 0.15 0.18 0.19 0.21 0.20 0.18 0.19 0.20 0.16 0.21 0.17 0.18 0.18 0.18 0.22 0.16 0.19 0.20 0.21 0.20 0.22 0.19 0.18 0.24 0.20 0.20 0.20 0.20 0.20 0.19 0.17 0.21 0.20 0.22 0.20 0.18 0.19 0.18 0.17 0.19 0.19 0.18 0.17 0.22 0.22 0.19 0.18 0.20 0.21 0.18 0.21 0.17 0.21 0.15 0.15 0.17 0.18

[105] 0.20 0.18 0.17 0.19 0.20 0.17 0.20 0.22 0.19 0.18 0.17 0.21 0.19 0.16 0.16 0.22 0.15 0.16 0.19 0.18 0.20 0.20 0.17 0.19 0.15 0.17 0.13 0.19 0.18 0.14 0.17 0.20 0.21 0.17 0.19 0.17 0.20 0.16 0.18 0.17 0.18 0.20 0.15 0.18 0.17 0.20 0.21 0.21 0.21 0.20 0.19 0.18 0.19 0.21 0.20 0.20 0.20 0.20 0.20 0.19 0.19 0.19 0.19 0.12 0.21 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.12 0.21 0.18 0.17 0.20 0.20 0.20 0.19 0.19 0.19 0.15 0.15 0.15 0.15 0.17

[106] 0.22 0.19 0.17 0.17 0.20 0.19 0.20 0.18 0.20 0.17 0.18 0.22 0.20 0.16 0.15 0.22 0.15 0.15 0.15 0.19 0.20 0.18 0.19 0.19 0.16 0.16 0.13 0.19 0.19 0.14 0.17 0.20 0.18 0.20 0.18 0.20 0.18 0.17 0.21 0.16 0.18 0.16 0.20 0.17 0.15 0.20 0.19 0.22 0.22 0.21 0.20 0.19 0.19 0.21 0.21 0.21 0.18 0.18 0.21 0.20 0.19 0.18 0.20 0.16 0.20 0.19 0.16 0.17 0.16 0.17 0.16 0.13 0.15 0.17 0.20 0.19 0.19 0.19 0.17 0.21 0.17 0.20 0.18 0.15 0.21 0.17 0.15 0.16 0.19

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0.16 0.17 0.22 0.18 0.17 0.19 0.18 0.20 0.17

[ 95] 0.19 0.19 0.19 0.19 0.17 0.18 0.17 0.20 0.22 0.19 0.17 0.19 0.21 0.20 0.19 0.17 0.16 0.15 0.16 0.19 0.19 0.19 0.19 0.19 0.10 0.17 0.18 0.20 0.19 0.17 0.18 0.21 0.20 0.20 0.15 0.17 0.20 0.18 0.18 0.18 0.18 0.18 0.17 0.16 0.16 0.21 0.18 0.18 0.18 0.20 0.20 0.18 0.18 0.20 0.23 0.18 0.19 0.23 0.18 0.20 0.18 0.18 0.19 0.20 0.20 0.20 0.20 0.20 0.18 0.18 0.19 0.19 0.21 0.23 0.23 0.18 0.18 0.20 0.20 0.20 0.21 0.20 0.20 0.16 0.16 0.18 0.20

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0.17 0.18 0.20 0.20 0.18 0.23 0.19 0.20 0.21 0.19 0.20 0.18 0.19 0.22 0.21 0.20 0.18 0.19 0.19 0.17 0.17 0.00

[109] 0.24 0.22 0.18 0.19 0.21 0.20 0.22 0.22 0.21 0.19 0.19 0.19 0.23 0.23 0.17 0.18 0.20 0.16 0.19 0.23 0.23 0.23 0.20 0.20 0.22 0.20 0.19 0.21 0.22 0.19 0.17 0.17 0.21 0.20 0.21 0.20 0.21 0.20 0.18 0.21 0.20 0.23 0.19 0.21 0.20 

[110] 0.19 0.20 0.16 0.15 0.20 0.16 0.18 0.20 0.21 0.16 0.17 0.21 0.17 0.16 0.17 0.16 0.17 0.15 0.16 0.17 0.18 0.19 0.19 0.18 0.19 0.17 0.17 0.18 0.21 0.19 0.13 0.16 0.19 0.17 0.20 0.17 0.16 0.19 0.16 0.19 0.16 0.17 0.17 0.17 0.21 0.18 0.20 0.19 0.21 0.20 0.21 0.20 0.21 0.18 0.19 0.21 0.22 0.19 0.20 0.18 0.20 0.17 0.20 0.21 0.21 0.20 0.17 0.17 0.17 0.17 0.17 0.17 0.19 0.17 0.19 0.19 0.18 0.18 0.17 0.17 0.17 0.12 0.16 0.16 0.17 0.17 0.17 0.16 0.17 0.20 0.15 0.15 0.20 0.19 0.21 0.18 0.18 0.17 0.15 0.17 0.19 0.18 0.16 0.18 0.18 0.18 0.17 0.16 0.15 0.14 0.15

[111] 0.20 0.23 0.19 0.20 0.23 0.19 0.22 0.22 0.22 0.12 0.18 0.19 0.24 0.18 0.21 0.19 0.16 0.19 0.18 0.20 0.21 0.19 0.22 0.20 0.19 0.28 0.22 0.17 0.19 0.21 0.18 0.22 0.19 0.22 0.19 0.22 0.18 0.22 0.18 0.22 0.18 0.22 0.18

[112] 0.20 0.21 0.17 0.18 0.21 0.17 0.20 0.21 0.21 0.21 0.17 0.17 0.17 0.17 0.17 0.18 0.21 0.16 0.18 0.15 0.17 0.19 0.17 0.20 0.20 0.18 0.21 0.20 0.18 0.17 0.20 0.22 0.15 0.17 0.20 0.18 0.20 0.17 0.18 0.21 0.17 0.20 0.18 0.19 0.18 

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0.16 0.17 0.22 0.19 0.19 0.21 0.21 0.19 0.20 0.19 0.19 0.17 0.19 0.20 0.19 0.19 0.19 0.20 0.19 0.18 0.19 0.12 0.12 0.12 0.13 0.13 0.05

[113] 0.22 0.18 0.20 0.17 0.20 0.19 0.20 0.21 0.20 0.19 0.18 0.20 0.21 0.18 0.20 0.21 0.18 0.18 0.17 0.19 0.19 0.19 0.19 0.20 0.21 0.20 0.22 0.18 0.19 0.18 0.21 0.17 0.18 0.22 0.16 0.21 0.19 0.20 0.20 0.20 0.20 0.22 0.18 0.19 0.18 

[114] 0.22 0.19 0.17 0.20 0.17 0.21 0.22 0.20 0.19 0.17 0.22 0.24 0.17 0.19 0.19 0.19 0.19 0.18 0.17 0.21 0.20 0.20 0.21 0.21 0.20 0.19 0.19 0.20 0.20 0.16 0.16 0.20 0.18 0.21 0.18 0.24 0.18 0.21 0.18 0.21 0.19 0.18 0.25 0.23 0.23 0.24 0.23 0.21 0.23 0.18 0.22 0.27 0.24 0.23 0.24 0.23 0.24 0.19 0.24 0.21 0.22 0.22 0.20 0.21 0.19 0.19 0.19 0.18 0.18 0.18 0.18 0.18 0.12 0.21 0.23 0.23 0.23 0.18 0.21 0.20 0.19 0.19 0.19 0.11 0.15 0.18 0.17

[115] 0.23 0.24 0.21 0.19 0.22 0.21 0.20 0.24 0.22 0.19 0.18 0.24 0.25 0.20 0.21 0.21 0.20 0.20 0.21 0.22 0.23 0.20 0.21 0.24 0.20 0.19 0.22 0.21 0.22 0.17 0.21 0.19 0.20 0.23 0.22 0.19 0.22 0.20 0.22 0.22 0.22 0.24 0.21 

[116] 0.24 0.23 0.20 0.18 0.22 0.19 0.22 0.24 0.22 0.20 0.19 0.24 0.23 0.19 0.24 0.23 0.20 0.21 0.20 0.22 0.21 0.23 0.22 0.23 0.24 0.21 0.20 0.21 0.24 0.19 0.19 0.23 0.20 0.22 0.22 0.22 0.21 0.19 0.23 0.20 0.21 0.21 0.21 

[117] 0.19 0.23 0.20 0.19 0.20 0.17 0.20 0.21 0.19 0.18 0.19 0.20 0.23 0.20 0.18 0.18 0.17 0.21 0.21 0.22 0.20 0.19 0.18 0.22 0.17 0.19 0.18 0.19 0.19 0.17 0.22 0.20 0.19 0.20 0.19 0.21 0.22 0.20 0.19 0.21 0.21 0.21 0.21 0.22 0.20 0.17 0.19 

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[119] 0.19 0.12 0.22 0.19 0.21 0.19 0.21 0.23 0.21 0.20 0.19 0.21 0.16 0.17 0.20 0.17 0.18 0.21 0.21 0.21 0.24 0.18 0.19 0.12 0.21 0.19 0.22 0.19 0.21 0.20 0.20 0.20 0.22 0.19 0.19 0.22 0.22 0.20 0.19 0.16 0.21 0.20 0.24 0.18 0.19 0.19 0.21 0.21 0.21 0.21 0.23 0.19 0.25 0.22 0.22 0.22 0.22 0.20 0.20 0.19 0.20 0.18 0.19 0.20 0.17 0.22 0.20 0.20 0.21 0.19 0.23 0.21 0.25 0.25 0.21 0.19 0.21 0.20 0.22 0.25 0.20 0.21 0.19 0.20 0.19 0.20 0.19

1201 0.23 0.15 0.20 0.18 0.21 0.20 0.22 0.23 0.23 0.23 0.21 0.19 0.22 0.12 0.18 0.17 0.18 0.18 0.18 0.22 0.21 0.20 0.22 0.21 0.17 0.19 0.18 0.20 0.22 0.19 0.18 0.20 0.21 0.19 0.21 0.18 0.18 0.23 0.17 0.22 0.19 0.16 0.18 

[122] 0.24 0.16 0.22 0.19 0.22 0.22 0.21 0.22 0.20 0.24 0.22 0.24 0.24 0.14 0.19 0.20 0.17 0.19 0.20 0.24 0.24 0.17 0.20 0.16 0.21 0.21 0.23 0.18 0.21 0.18 0.21 0.21 0.22 0.20 0.22 0.23 0.19 0.20 0.22 0.22 0.22 0.20 0.15 0.21 0.18 0.23 0.19 0.22 0.22 0.26 0.25 0.24 0.23 0.18 0.22 0.21 0.22 0.22 0.20 0.20 0.18 0.22 0.19 0.20 0.21 0.25 0.20 0.22 0.21 0.22 0.21 0.22 0.19 0.19 0.24 0.24 0.19 0.22 0.22 0.21 0.21 0.25 0.22 0.22 0.21 0.20 0.21 0.19

[123] 0.17 0.20 0.19 0.16 0.17 0.13 0.20 0.16 0.16 0.16 0.16 0.16 0.16 0.19 0.22 0.18 0.17 0.17 0.16 0.15 0.16 0.19 0.17 0.17 0.18 0.19 0.14 0.15 0.16 0.19 0.14 0.15 0.16 0.19 0.14 0.15 0.16 0.19 0.14 0.15 0.16 0.19 0.14 0.15 0.16 0.19 0.14 0.15 0.16 0.17 0.17 0.17 0.17 0.17 0.17 0.16

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0.16 0.16 0.20 0.20 0.20 0.23 0.21 0.20 0.21 0.19 0.19 0.21 0.19 0.21 0.20 0.20 0.20 0.20 0.20 0.19 0.20 0.20 0.14 0.14 0.14 0.14 0.14 0.12 0.12

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[137] 0.19 0.19 0.17 0.16 0.15 0.17 0.17 0.18 0.17 0.16 0.20 0.20 0.16 0.15 0.16 0.17 0.16 0.20 0.20 0.16 0.15 0.16 0.17 0.16 0.18 0.20 0.18 0.15 0.15 0.15 0.15 0.15 0.14 0.18 0.15 0.11 0.17 0.18 0.17 0.18 0.17 0.18 0.16 0.17 0.18 0.19 0.17 0.18 0.17 0.19 0.15 0.18 0.17 0.18 0.17 0.18 0.19 0.17 0.18 0.19 0.17 0.19 0.15 0.14 0.18 0.19 0.17 0.18 0.17 0.19 0.15 0.18 0.17 0.19 0.18 0.19 0.17 0.18 0.19 0.17 0.19 0.15 0.14 0.18 0.19 0.17 0.18 0.17 0.19 0.15 0.18 0.17 0.19 0.15 0.18 0.17 0.19 0.18 0.19 0.17 0.18 0.19 0.17 0.18 0.19 0.15 0.18 0.17 0.19 0.18 0.17 0.18 0.17 0.18 0.17 0.18 0.17 0.18 0.17 0.18 0.17 0.18 0.17 0.18 0.19

[152] 0.18 0.18 0.12 0.17 0.19 0.17 0.20 0.20 0.19 0.12 0.16 0.19 0.19 0.19 0.19 0.16 0.17 0.18 0.16 0.15 0.15 0.20 0.18 0.17 0.17 0.18 0.16 0.12 0.13 0.15 0.14 0.16 0.17 0.16 0.17 0.18 0.16 0.15 0.12 0.10 0.19 0.10 0.16 0.17 0.18 0.17 0.18 0.17 0.18 0.17 0.18 0.17 0.18 0.17 0.18 0.14 0.16 0.17 0.18 0.14 0.15 0.12 0.14 0.16 0.17 0.17 0.18 0.16 0.17 0.18 0.17 0.16 0.18 0.14 0.15 0.12 0.14 0.16 0.15 0.17 0.19 0.15 0.17 0.19 0.15 0.17 0.19 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.17 0.16 0.12 0.17 0.16 0.12 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.17 0.16 0.16 0.17 0.17 0.16 0.16 0.17 0.17 0.16 0.17 0.16 0.17 0.16 0.17 0.16 0.17 0.16 0.17 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.17 0.16 0.16 0.17 0.16 0.16 0.16 0.17 0.16 0.16 0.17 0.16 0.14 0.14 0.14 0.14 0.14 0.14 0.12 0.12 0.13 0.13

[155] 0.19 0.18 0.15 0.18 0.17 0.17 0.17 0.17 0.17 0.07 0.15 0.19 0.17 0.18 0.16 0.19 0.15 0.15 0.15 0.16 0.20 0.18 0.15 0.18 0.18 0.13 0.15 0.17 0.17 0.17 0.14 0.14 0.15 0.17 0.17 0.19 0.18 0.12 0.15 0.15 0.15 0.17 0.17 0.11 0.13 0.15 0.17 0.17 0.19 0.15 0.17 0.17 0.11 0.13 0.15 0.17 0.17 0.11 0.13 0.15 0.16 0.19 0.15 0.16 0.19 0.15 0.16 0.15 0.15 0.17 0.17 0.15 0.17 0.17 0.15 0.17 0.17 0.15 0.16 0.13 0.15 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.17 0.15 0.17 0.15 0.17 0.15 0.16 0.13 0.15 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.17 0.16 0.17 0.15 0.17 0.19 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.17 0.16 0.17 0.15 0.17 0.19 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.17 0.16 0.17 0.15 0.20 0.19 0.19 0.21 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.16 0.15 0.16 0.15 0.16 0.17 0.16 0.15 0.15 0.15 0.15 0.15 0.16 0.15 0.15 0.15 0.15 0.15 0.15

[164] 0.21 0.19 0.15 0.17 0.19 0.20 0.22 0.21 0.12 0.18 0.18 0.21 0.20 0.15 0.19 0.12 0.14 0.14 0.14 0.14 0.16 0.21 0.18 0.20 0.20 0.15 0.14 0.17 0.19 0.17 0.15 0.17 0.18 0.19 0.21 0.15 0.18 0.21 0.16 0.20 0.15 0.14 0.17 0.19 0.17 0.15 0.17 0.18 0.19 0.21 0.15 0.18 0.21 0.16 0.20 0.15 0.18 0.06 0.15 0.21 0.18 0.22 0.21 0.21 0.21 0.21 0.20 0.18 0.19 0.22 0.18 0.19 0.22 0.18 0.19 0.17 0.18 0.19 0.20 0.16 0.16 0.15 0.15 0.15 0.15 0.16 0.17 0.18 0.23 0.23 0.16 0.17 0.19 0.18 0.19 0.20 0.13 0.13 0.13 0.15 0.17 0.15 0.17 0.19 0.17 0.19 0.18 0.17 0.19 0.17 0.19 0.10 0.17 0.19 0.10 0.17 0.19 0.19 0.12 0.13 0.13 0.13 0.15 0.17 0.17 0.15 0.16 0.17 0.15 0.16 0.17 0.17 0.16 0.17 0.17 0.16 0.17 0.17 0.16 0.17 0.17 0.16 0.17 0.16 0.17 0.17 0.16 0.17 0.17 0.16 0.17 0.17 0.16 0.17 0.17 0.16 0.17 0.17 0.17 0.18 0.12 0.11 0.14 0.12 0.11 0.13 0.13 0.13 0.12 0.11 0.04 0.10 0.03

[166] 0.20 0.20 0.16 0.17 0.19 0.20 0.22 0.21 0.19 0.12 0.17 0.21 0.21 0.12 0.17 0.21 0.21 0.15 0.15 0.15 0.17 0.21 0.20 0.17 0.20 0.20 0.16 0.15 0.19 0.19 0.16 0.16 0.16 0.16 0.20 0.19 0.21 0.15 0.16 0.20 0.17 0.18 0.08 0.15 0.24 0.19 0.22 0.21 0.20 0.20 0.20 0.20 0.19 0.20 0.24 0.19 0.19 0.22 0.18 0.20 0.17 0.19 0.18 0.20 0.18 0.16 0.16 0.16 0.16 0.17 0.19 0.18 0.25 0.24 0.17 0.16 0.16 0.17 0.19 0.18 0.16 0.16 0.18 0.17 0.22 0.18 0.19 0.19 0.19 0.19 0.10 0.12 0.17 0.19 0.19 0.22 0.18 0.20 0.17 0.19 0.18 0.20 0.18 0.16 0.16 0.16 0.17 0.19 0.18 0.25 0.24 0.17 0.16 0.18 0.19 0.19 0.18 0.17 0.19 0.20 0.15 0.14 0.16 0.18 0.19 0.17 0.22 0.18 0.19 0.19 0.19 0.19 0.10 0.16 0.17 0.15 0.16 0.19 0.19 0.17 0.18 0.18 0.17 0.19 0.19 0.19 0.19 0.19 0.17 0.21 0.20 0.21 0.21 0.21 0.20 0.17 0.17 0.16 0.16 0.18 0.18 0.21 0.17 0.18 0.16 0.16 0.16 0.15 0.17 0.15 0.17 0.19 0.14 0.15 0.13 0.14 0.15 0.13 0.14 0.14 0.13 0.14 0.14 0.12 0.13 0.12 0.05 0.12 0.03 0.03 0.16

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[177] 0.19 0.16 0.17 0.15 0.17 0.16 0.18 0.21 0.21 0.16 0.18 0.20 0.17 0.18 0.08 0.17 0.09 0.14 0.17 0.17 0.20 0.19 0.17 0.16 0.17 0.16 0.19 0.19 0.15 0.15 0.15 0.15 0.18 0.17 0.18 0.14 0.17 0.13 0.14 0.17 0.15 0.18 0.14 0.20 0.17 0.20 0.19 0.19 0.19 0.19 0.20 0.18 0.16 0.20 0.19 0.16 0.20 0.20 0.20 0.19 0.16 0.17 0.16 0.12 0.16 0.20 0.15 0.16 0.18 0.18 0.18 0.19 0.17 0.18 0.19 0.18 0.18 0.18 0.18 0.18 0.16 0.16 0.14 0.14 0.14 0.16 0.16 0.12 0.17 0.23 0.15 0.19 0.18 0.17 0.20 0.16 0.16 0.16 0.16 0.16 0.17 0.16 0.22 0.19 0.17 0.19 0.17 0.19 0.17 0.18 0.18 0.19 0.16 0.16 0.17 0.19 0.20 0.21 0.21 0.21 0.19 0.17 0.19 0.17 0.18 0.20 0.16 0.17 0.18 0.17 0.18 0.17 0.18 0.16 0.16 0.17 0.07 0.02

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[175] 0.19 0.16 0.16 0.16 0.16 0.17 0.16 0.20 0.19 0.19 0.15 0.17 0.19 0.17 0.15 0.08 0.16 0.09 0.16 0.16 0.19 0.17 0.18 0.18 0.16 0.17 0.17 0.17 0.17 0.14 0.15 0.18 0.16 0.14 0.17 0.19 0.14 0.15 0.16 0.15 0.16 0.15 0.16 0.15 0.20 0.16 0.20 0.20 0.19 0.19 0.19 0.18 0.16 0.17 0.22 0.18 0.17 0.20 0.18 0.17 0.16 0.19 0.18 0.18 0.12 0.16 0.17 0.16 0.15 0.15 0.15 0.17 0.17 0.12 0.20 0.17 0.16 0.18 0.17 0.15 0.15 0.14 0.14 0.14 0.15 0.17 0.13 0.16 0.21 0.15 0.16 0.16 0.16 0.16 0.17 0.15 0.17 0.17 0.17 0.15 0.17 0.20 0.19 0.18 0.19 0.16 0.16 0.14 0.16 0.18 0.17 0.15 0.15 0.17 0.16 0.17 0.18 0.20 0.18 0.19 0.15 0.16 0.15 0.18 0.19 0.17 0.16 0.15 0.16 0.16 0.17

[174] 0.19 0.20 0.18 0.18 0.21 0.16 0.20 0.20 0.21 0.17 0.17 0.20 0.21 0.19 0.17 0.19 0.15 0.18 0.20 0.19 0.20 0.19 0.19 0.20 0.18 0.18 0.16 0.20 0.14 0.15 0.16 0.16 0.17 0.19 0.15 0.15 0.20 0.19 0.19 0.19 0.18 0.16 0.22 0.18 0.17 0.17 0.17 0.20 0.17 0.16 0.16 0.16 0.18 0.18 0.18 0.17 0.19 0.15 0.15 0.13 0.15 0.15 0.15 0.15 0.13 0.13 0.15 0.15 0.16 0.16 0.16 0.16 0.16 0.16 0.15 0.15 0.15 0.15 0.15 0.13 0.14 0.12 0.12 0.07 0.08

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[172] 0.22 0.19 0.16 0.12 0.22 0.20 0.21 0.18 0.21 0.16 0.17 0.22 0.21 0.16 0.17 0.12 0.15 0.17 0.18 0.19 0.12 0.19 0.19 0.19 0.19 0.19 0.19 0.16 0.20 0.14 0.14 0.14 0.14 0.14 0.14 0.19 0.18 0.19 0.20 0.18 0.19 0.15 0.19 0.15 0.19 0.15 0.15 0.20 0.19 0.21 0.20 0.22 0.21 0.17 0.20 0.18 0.23 0.18 0.19 0.20 0.18 0.19 0.20 0.20 0.20 0.20 0.19 0.15 0.19 0.17 0.19 0.16 0.17 0.18 0.16 0.24 0.23 0.19 0.18 0.18 0.20 0.19 0.19 0.19 0.20 0.16 0.16 0.17 0.17 0.22 0.18 0.16 0.18 0.18 0.18 0.18 0.15 0.17 0.17 0.17 0.17 0.18 0.21 0.17 0.20 0.17 0.16 0.15 0.16 0.15 0.15 0.15 0.15 0.15 0.14 0.16 0.15 0.13 0.17 0.17 0.19 0.17 0.15 0.14 0.16 0.15 0.14 0.15 0.16 0.13 0.13 0.13 0.13 0.11

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Table. Estimates of Evolutionary Divergence between Sequences

The number of base substitutions per site from between sequences are shown. Analyses were conducted using the Kimura 2-parameter model [1]. The rate variation among sites was modeled with a gamma distribution (shape parameter = 1). This analysis involved 235 nucleotide sequences. Codon positions included were lst+2nd+3rd+Noncoding.

All ambiguous positions were removed for each sequence pair (pairwise deletion option). There were a total of 992 positions in the final dataset. Evolutionary analyses were conducted in MEGA X [2]

1. Kimura M. (1980). A simple method for estimating evolutionary rate of base substitutions through comparative studies of nucleotide sequences. Journal of Molecular Evolution 16:111-120.

2. Kumar S., Stecher G., Li M., Knyaz C., and Tamura K. (2018). MEGA X: Molecular Evolutionary Genetics Analysis across computing platforms. Molecular Biology and Evolution 35:1547-1549.

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## Appendix F

## (i): Variation at Amino Acid Level (Conserved Sites) in Sequences of Passeriformes Computed by MEGAX

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☑ 2. BOLD:ACZ2474 Prinia buchanani			• •		-					÷																							
3. BOED:ACZ2564 Alauda gulgula australis				2		40			-				÷							. V				4.1									
☑ 4. BOLD:AAD9870[Galerida cristata arenicola		÷.		4			4			-		-	÷ 20				1.		4	. v				15	5				÷.,	4. 1			2 .
S. BOLD:ABX5008 Passer hispaniolensis	-			-						-				•						. V	1.11			100		a. 21				10.00		1000	-0.04
☑6. BOLD:AAC0536 Sylvia curruca curruca		× .		4					-		. :									. V				12	6								
7. BOLD:AAU3934 Tephrodornis pondicerianus						6.800							÷ 4			1.0				. 7		4.1		1.0		2. 2.				1. 1			÷.
☑8. BOLD:ACH6125 Dendrecitta vagabunda saturation									-											. V													
9. BOLD:AAR9140 Corvus splendens splendens		÷.								-					1.1		12		4	. v				12		4.1	4			1.1			
10. BOLD:AAC1536 Phoenicurus ochruros				-					-	-			2.50							. V	1000			- 42						10.0		4102	c a
☑ 11. BOLD:AAV9282 Chrysomma sinense		2.		2	23	1.60			. 2	-	- 3		9 E.	2						. V				1	4								
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☑ 13. BOLD:ACZ2475 Prinia socialis socialis													2.2							. V		5										-	
☑14. 80LD:AAX4494 Melanocorypha bimaculata					2												2.2	Ξ.	1	. v	1.3			4	8	2.0	4		÷.,	1.		2.0	
✓15. BOLD:ACE4748[Acridotheres ginginianus				-						•										. V				4.0								. 7	2 .
✓16. BOLD:ACS3101 Cisticola juncidis				2	2		. 4						÷ 20						1					12	4	÷ .,	Ξ.		٠.				. :
☑ 17. BOLD:AAE0119 Pastorroseus		-		-						-	• *	-	a 12				i 45	ia ia	4	. V	2.04			43	a	2. 27	÷.,		100	4.1	1992	100	83
✓18. BOLD:ACZ1830]Emberiza buchanani		-		-						-		-								. N												-	
☑ 19. BOLD:ACH8855 [Eremopterix griseus					1.5		1		12				- 11				2.2	÷	1	. V		1		12	4	2.17	÷.		1	1. 1		120	11
20. BOLD:AAB3874 Carpodacus erythrinus					-					- 20		-	a 10							. V				40						10.00		4557	0.07
21. BOLD:ACZ2757]Oriolus oriolus													۰.,							TV													
22. BOLD:AAB5621 Corvus corax corax										-				2	1	1.	2.2	÷	4	. v				1	8	2. 2.	5		÷.,	1. 1		100	24
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26. BOLD:AAN3860 Pycnenotus leucogenys				2									÷ .							. V													
27. BOLD:ACH0131 Phylloscopus affinis				-	-					+33			÷ 2.				1.2			. V				1.1						10.1		2.0	
28. BOLD:ABW5160)Corvus machorynchus													1.14							. V	-			- 40						100		1000	
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#40. BOLD ABIASTIBII Canvas macroshyrachas																									
9243. BOLD ACHERI (Orthotomus sutorius																									
#42. BOLD:AAV0909;Ownanthe piceta																									
¥43.80x0.4CZ2682Cepschut Micetur																									
#44. AC- ABB4030197-the breachyses														1											
945 AC IQ17906Aegithina tiphia																				÷.,					
#46. AC-1040300148.amaa collaria																									
#47. AC-SQ4E2029Lanius isobelinus																								1.1	
#48_AC-6Q4820038.email.oristatua																									
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9/54. AC-2Q178130/Dispidure surreris																		٠.	1.1.4	14				1.1	
9735. AC-RCI54828Hquidtymes asunta																								1.0	
¥16. AC-SQREDBURGendus glandarus														1											
257. AC-J0278603Ukboosa eythiohyncha																									-
VIA AC-OQ482478(Pica pica																									
939. AC-60571393 (Nucleage caryocatades																									-
12 50. AC-GQ482576(Pyrthamaran pyrthanaran																									
With AC-GQ882573(Pyrhocens gradulus																									
9242. AC-0Q40560[Corver menabela																									
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¥33. BOLDI ACZ/SHI[Univiewa Flavinomia flavinom	44																										+ +	
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934. BCLD:AC54664[Terpsightere paradici parad	fer .												1.												1.917			
25 BOLDIAACS7L19Myophonus camulnus									1.1	1.4			1.0	1.4	+ - +		1.0	1.4			6.14	14.5			1.4	1.16	4.4	
9736. BOLD AC23808Physiopeter Intercomphature		1.00																							6.0			
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238. BOLD: AC23004(Emberica fathemi												- 1				- 1	1.								6.			
2.8 BOLD A&CLEMPELSE Givenovnes ruble	and in											8.1				8.1				1.0					0.6		14.04	
940. BOLD ABI/SDBJ Cervia macrohymches		1.00				10																			1.6			
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#42. BOLD: AAV00000 Cenanthe piceta						100			÷.,	\$ . ÷			÷.,	1.4			1	÷. +			+ 4			+ +	1.4	2.5	+ +	
9243. BOLDI ACZ2063Ceptychia: Nilicetua		1.00			1.00	2.1		0.00	1.				( - t	1.1			-	1.1		0.00	÷ 4.		+ -		6.4	a	+ +	
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954. AC-IQENEER/Dispidure exercise						1.0			1.	1.4			1.	1.4			( a.,	1.4		1.00	1.14	100	+ -		1.00			
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918. AC-SQR2960 Gensles glanderus						1.1			1.1	2.4			1.4	1.1			14	1.4			1.4		4.4		1.0.1	4. 10		
9257. AC-300786030 koossa erythionhyncha																				141	+ +						+ +	
258. AC-6Q404B(Peapea						1.0	1.0		4				- 4					. +			+ 4							
9.59. AC-60571593 (Nuchage Devocements						1.0		1.0	1.1				1.				1.											
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9.67. AC-GQ480854(Enerosphile algestris		· · · · · · · · · · · · · · · · · · ·
9266 AC-00481412/Calendrella acubiostris		
9240. AC-000403420(Calendratia rufascere)	· · · · · · · · · · · · ·	<mark> </mark>
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1218. AC-G0571915E-countella maevia						* * * *					
2119 AC-HQ00004(Printe conspen			1 1 × 4					1.0.4.0	* * * * *	4. 4. 4. 4. 4	
1210. AC-40/22450(Penia granite	Contraction ( and	**********									
212 AC-HORBELPhinia Baviverbis		A. A. A. A. A.							1		
92322, AC-KT240352(Printe etumate											
W123 AC-IQ0763225yAremana											
92138. AC-60372123 (Sylvia viseria			1.1.2.2.2			1.1.1.1				1	
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14a7 201 - and ann and (200-180)	Conserved 225	100	215 time select								

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≤125. AC-00575644 Sightie cressinative			÷.,			1	5 N	34.3	6.0	1.0	5 T.							- 1												. 1
W128 AC-IQI763235ykke mystacee	1. A. A.			1.		1				20	2.2							. 4												. [
9 127. AC-GUS72130 (Sylves community	1							÷.,										1. 1	6											
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97.130. AC-9Q07S707[Pelkimeum ruftcept	1 - C				• •			8.5										1.1												
1211. AC-IQ17367[Akippe priorephale	1	•					• •	н.										- 1			н.									
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9 133 AC-606083[Tunteidas malestre								÷.,							•				100			1.1		140					1.1	
2134. AC-MH005000[Trochalopteron erythrocephalum woodi	1. <b>.</b> .		1.1	1.0		*	• •	8.5		-		1.14	- 1	- 10				1.1	1											
92125. AC-E04470479Hatumphania capistrata nigricapo	1 × 1 × 1	-	95	1.				2.5						-				* *	1.		н.									-
€136. AC-6Q482228 Musclcape sbirks	- <b>-</b> -	÷	2.5			*		* *		2.5								. 1	í											
9/137. AC-IF488868 authors have		•	ж.		• •		• : •				• •							- 1										-	1.1	
VIII. AC-GQ682236Musclcape devonce	- <b>-</b> -	•	э		• •	• .	• : •	÷.,			• •							1.1												
2130. AC-00571987@Austicape strata	- <b>-</b> -		80.		• •		6 i . <del>4</del>	÷.,										1. 1	1.0											
G 140. AC-MF580091(Cercotriches galactutes	1	÷	1.1		÷ +	1.1		2.1	-		- T.							- 1	1											
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145. AC-JQ175290(Laterina magarhymthea	1 <b>N</b>				• •	+		ж.										. 1	6.00			6.43							1.1	
€ 146. AC-0C78960]Luicinia svedca	1.00		2.2		• •	+	• •	80			• • •				۰.		64	1.7	1.											
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2151. AC-6Q481801/Fundula albicitia	- <b>-</b> -	-	***	1.0		+					÷+.							- 3	1.											
9:152-AC-GR921991Ficeshile parva		-			• •			10		* *								- 1												
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9 126. AC-IQ07622115yAla mystaces							
9/127. AC-GUB72120/5/via commune							
97138. AC IQU79931/PernaturNews erythrop	(475)	V					
9/120. AC-MIDI0012.8.aticitis burnerii		¥					
9138 AC-IQ05707Pelloneum ruficepe		X					
9/131. AC-3Q573857[Akippe presidephale							
9710 AC-MHOSS873Avgya earlei earlei		V					
97130. AC-8CK08041(Turstoofee malcofree		Y					
9/134. AC-MHODSHUTTrochalupteron eryth	receptatum woodi	V					
9/125 AC-EU44/04/3Hatwrophasia capithati	a hege capit	. Y					
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¥134. AC-MH285500[Trochalopheon erythrocephalum wood	Ń											ά.						ъ.				-		- 1	141			-		
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9/151. AC-0070300 Preservicurus frontalis									2.4									х.								- 14			2.2	
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94157.AC-0	Q482371(Menticole seatths	V	٧.																										
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94185 AC-0	Q602560(Prunella atrogularia	V	٧.,																										
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9/160. AC-JQDN280(Seconda caprata		1.												÷.						· Y												
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9 111 AC-GORZMOI Turks viscoonal				4		1.	4.	+	. 1		÷.,																					
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19 181. AC-MM-9290951Aethogyge spaces stores.				÷.,	έ.		4.		- 4	-			÷.,																			
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9 181 AC-60480565 Prunello fumiliarian		12											- 1		, ,					. *												
9184. AC-60482563[Prunelle fulvescents					2				1	÷.										v												
9 185 AC-OORC500Prunelle atroquianti																																
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9126 AC (017652)(Sylva mystacea		10.00			1.1		1.1	1.1		÷., ,	1.1	1			1				14.1	1.5			100	1.1		F
#127. AC-GUS72LN(Sylvia communia							2.4	1.1			G. 1											1.1		1.		Ŀ
V128. AC-JQ179851/Ponatorhinus enthrogenys		1.4			4.4		1.4	1.1		1.1.4	14.1	1.4		4.4	1.	÷.,	14.						4.1	1.	1.14	Ŀ
9 129 AC M9260012 Extinitie turrenii								1.1			Se . 1				1.		1								1.1	Ŀ
#138. AC-HQ075707/Pelkeneum ruficept								1.4												1.	-			64		Ŀ
111. AC-IQI7067(Akippe princeptule											4.1	1.41			4											Ŀ
VIII: AC-MHOSS873Avgua scalar scalar					1.1			1.4				1.4		÷.,		÷. +	1.40							1.1		Ŀ
# 133. AC-6CK8041[Turdeidas malcolmi														÷.,	4											Ŀ
2134. AC-MHORMOR/Tochalupterco enthrocephalum woods					1.41							1.00			- A .					1.1				64	1.1	ŀ
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¥136. AC-6Q482226 Muscicape sibilice		1.1			2		10.1				4.1		- +		14	1.1		+ - +		1.					2.4	ŀ
¥137. AC-IH00008 Leather Lates					1.14			1.1				1.												í.	1.1	Ŀ
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9 130 AC-GUS71087@Auszisiaga striata							1.4	1.1			1.1	1.			14						1.0					Ŀ
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92141. AC-IF408045(Copy)/has materials					1.41			1.6			÷.,	1.			4						-		-			ŀ
9/342. AC-IQU14627[Cyamit rubeculoides												1.1							14		1.			1.1	÷.,	Ŀ
143 AC-IQ17930(Niltova sutsfate								1.4								1.4	1.00							1.		Ŀ
V 344. AC-EP422382 Muscicipia Bralassiva					1.1			1.1				1.4	2.2	÷.,	1	1.1					141	e) e)		1.1		ŀ
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9/147. AC-RUR70740(Calliope pecturalis	610.	1.1			1. 10			2.7			G 1	÷ (4)	+ +	+ +	-		+	+ +		1.1	-		-	1.1	1.4	Ŀ
97.148. AC-6Q482758[Tarsiger cyanutus					4. 4			1.4	1.1		4.1	6.4	1.1		1.	6.6				1.1			4.1	2.21		Ŀ
¥ 148. AC-IQ176404(Tansiger chrysaeus					1. 1.		1.0	1.1		1.14	1.1					1.1				1.5				1.		ŀ
V158. AC-IQ074846(Foodule stroghoste					1.14			(2, 1, 4)	+ +		4.1	1.			4		. +	+ -	+ -	4.14			-	1.4		Ŀ
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€153. AC-D020000(Phoenisurus Nontaile					1.4.								+													ŀ
9/154. AC-6Q482903Phoenicurus erythminidus					4.4						4.1				4											ŀ
92.155. AC-00572028/Photenicurus photenicurus					· • •			1.1				1.4		÷.,				• •			141					Ŀ
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¥16. AC-M	F795487(Cenantha finochii					÷ ;-								1.0					1.				1	
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9/100 AC-IF	408002)Oxeanthe industries					4.34	1.10		1.1	1940			1.1	140	10.1	100		1.10		10.0	10			
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¥118. AC-68	Q482570(Turdus ruficolitis			20		6.6			1.9				114		1.1	1.	10.7	1.1		1.1	1.	14.7	4	
HITS AC-K	CKIRCORPORT contra			4.5				1.1		1.0		14.5	1.10	100	1.14	Salt		1.11	100	1.14	1.00	14.14		1
¥18.AC-R	(\$25342)Sturnus pagodasum			4.1		4.4		4.4		1.4				14.1		1.00	4.7		14.		1.40	4.5		11
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9/100.0010	44260700 icaeum erythrontynchos			4		4.14	• • •				• •		1.15			0.40		1.11			((+)		1	111
9-181. AC-M	H129035/Authopyge sipange sipange					4.14			10.14	1.			1.1	140				1.10	1.41	10.1	1.0			
₩182 AC-04	HKIIIIQPruvella colleria			4.1		1.12		6.4		181		14.14		1.0		1.4	÷.,	1.16	140		1.4		-	
@183.AC-61	Q482565(Prunella formalayane			1									1.14		+	1.00	÷. 7	1.1	-		1.00		1	
¥104. AC-08	Q402503/Pruneto fulvescens			20		1.1	2.20			181			1.11		1.1	1.0	14.17	1.1	1.0	1.1		14.1		
918.AC-0	Q4825800Prunelle atroquiario			2.7	1.1	4.45			1.1	1.4	11.	1.1	1.1	100		1.4	10.7	1.1	1.00		1.4	10.7	1	11
¥186 AC-IP	9370259Motacilla cinerea			÷.,		1.51				1.			1.1	1.0	1.1	14		1.1	1.4	1.1	114		4	-
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9/38. AC-09/35198(Hypecolius ampelinus			4.4	- <del>- K</del> (	0167					1.1				l
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₹202. AC-GQ602529 Carpodecia rubicita	· · · ·		10161		• • • •		· · · ·							l
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2006. AC-GQ483479ELevena flavorostres			+ +	- <b>-</b>				A 4 4 4 7	5.	A 4 4			A. A. A. A.	l
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212. AC-GQ48263RSninut publics			· · ·			5.6.5		1 Y		1.1				
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214 MC-IQ374779Emberiza melanocrythila			*(1+)		<ul> <li>• • • •</li> </ul>									l
215. AC-KCK30213[Entherine Investops								X						l
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217. AC-2F4WEB/Embarisa fucata	· · · ·	· Contraction of the	1.1						1 1 1 1 1 1 1	1.11				ſ
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9/197. AC-DUS718038/Astanita fiera	V			
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¥190. AC-GQ6813613Anthus godievatkii	V			Contraction of the second second second
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¥192. AC-603707123Anthus protensis	v			
9/193. AC-00481340(Anthus hedgeant	· · · · · · · · · ·			
SE104. AC-680571230(Arithus convinue)	Y			
9/105. AC-6Q481385(Anthus sprnslatta	· · · · · · · · · · · · · · · · · · ·			
€198. AC-6Q483258[Anthus rubescens	Y			
2107. AC-00071754(bombycite genetice				
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9/100. AC-MR202311 Fringilie confeder	V V			
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№ 202. AC-6Q402528Carpedecia rubicita	Y			
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¥294. AC-6Q40000Enmopratria mongolica	Y			
92.005. AC-6Q482052(Laucoutieta namornalia	V V			
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2198. AC-GQ481341(Anthus godiewski)						 	
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2196 AC-SQ481288Anthus nutrescens		8 - P. B. B. P. P. P.				 * * * * * * *	
≥107. AC-60/D1734(Bembyelfa gamulus	a second s					 	· · · ·
2198. AC-0925219034ypocolius empetinus						 	
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201. AC-0201339Concettimentes inocetheantes		**************************************	1.1.1.1.1.1.			 	v + + +
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2.354. AC-GQ482808(Enemopratina mangolica			1	+ + + + +		 	1.4.1
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200. AC-0Q461450;Linuria cannabina			8.0.0 A.A.			 	
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215. AC-8C630323(Emination Instructions		• • • • • • • • • •	a. a. a. a. a.		<ul> <li>A</li> /ul>	 	1. 1. 1. 1.
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217. AC-IF400L10Emberius fucuta		* * * * * * * *	5 S. S. S. S.	A		 * * * * * *	
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9212. AC-0	Q48240305ammun punitus																													
¥733.AC-0	Q4834955pinus (pinus																													
¥254.AC-8	Q1747NEEmbarica melanooghala																													
¥215.AC-8	CRIMITAL Entretics brunkings																													
₩216.AC-8	US71867/Emberize zalandra																													1
217 AC-8	Real State of the State of Sta																													
¥218.AC-8	Q481347(Emberge tie																													
¥218.AC-0	Q401700Emberica godiewskii																													
¥220.AC-6	PE77676 Emberica stavarti												2.4																1.1	
¥221. AC-6	Q481.772(Emberica Inucocophains																													
@ 222, AC-N	#SREE75(Emberine stricture												2.5																	
# 325 AC-0	0571874@mbelcs.schoenichal																													
9224. AC-0	F3125786 Einibertas esentile																													
9-225 AC-0	US71871Kosheriza posika																													
¥28.AC-0	Q481805/Emitenza rutile																													1
9.227, AC-N	#283882Paster domesticue																													1
₹208. AC-N	#767304jPasser meakitican												. A	÷																1
9.129. AC-18	957028Patter montanut												, A																1.1	
¥230, AC-0	Q682355(Putronia patronia										4					ι.									÷ .				1.1	
₹200, AC-1	H65315(Carpropias bracky dacty/a												Ā																	1
¥202.AC-0	Q462176/kArnthiergilla mvalie																												1.1	
£233.AC-4	#580357Linchurs malabanca																													
224 AC-I	4088748.contrara punctulata												1.1																1.1	
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9.35 44-6	Q48,255/(Lescosticte vemoricals						
276. AC-0	Q482049(Laucoutiete Israndti						
94.007 AC-10	at 5359 Node grice about et a						
¥ 206, AC-0	Q403470(Lenaria film/readtion						
9.28 AC-0	Q60,455(Levaria cannationa						
WZIE AC-6	UD19985.cos-curvinetre						
HIL AC-M	N252589Carliefs carbels						
€212.AC-6	Q482830(Serinus punitur						
97.113 AC-6	Q40.005pmus salmas						
WELLAC-R	QD4776jEmbariza materorogifiala						
97235 AC-8	CERRITATION IN THE PROPERTY INTERTY INTO PROPERTY INTERTY INTO PROPERTY INTERTY INTO PROPERTY INTERTY INTO PROPERTY INTO PROPERT						
¥216.AC-0	US2062 Embariza calandra						
WILL ACH	4991.81d/mberga fucata						
VIELAC-G	Q481747(Embariza sia						
¥218.AC-0	ORETROE-Being godiewski						
94200, AC-10	PE77Dijfordiarus stavarti						
9.111.40-0	G483772(Emilieriza Inscisciphales						
14222 AC-M	#580075(Emilianza strictura						
9-223 AC-0	US71814Ersbeigs schoenkchip						
9224, AC-10	FULS780 (Evolution payments						
9235-10-6	US71872Emberiza publika						
9236.AC-0	Q481805(Emberize rutile						
WEET, AC-N	9/2829829Faster domesticus						
\$228. AC-M	#767304(Passer mostificae			Y			
¥23.4C-8	9570289Faster montanus						
9/28LAC-0	Q4822559Putrionia patrionia						
RIII-AC-1	HIS315(Carporiation brackly decty/a						
¥202.AC-0	Q482576MonthForgille nivelis						
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¥254, AC-II	49804Lonchura punctulate						
9.05.40-0	X2831248Latinus mittor						
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⊋Name .	and the second	PVLAAGITM	LLTDRML	NTTFF	DFAGG	6 D P	LYQH	LEWF	F G H P	EVY	t L I	Lte
9.85 AC-60	WK358Leucoticle nemoticala											
#206.AC-60	(RECORD Laurantiethe Internal)											
WITH AC-FIE	45339@hadogita obscieta											
¥208, AC-60	(483479)Linuria Nevrostris											
¥308.AC-60	WOKS/Charle cannebine											
¥210. AC-61	670254 Losia-curvinentea											
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9212.86-00	AL2030Sativus pusitus											1.1.1
¥213. AC-60	WATHERS Spinus spikus											
9/234. AC-103	14736Enthenia meterosophela											
923.4040	X20023E-otheriza brunicept											
¥216.AC-88	(571967)Emberize salarshe											
97217-AC-IF4	BBL30Emberga fucata											
¥218.AC-80	(RELTAT)Emberge vie											
238 AC-00	(401706)Embericz gódłewski											
¥200. AC-409	070%6mbelos stecenti											
¥223. AC-60	WELT/2[Emilierica Teucocriphalist											
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¥223 AC-60	571874(Drobelize schoervichis											
9204. AC-81	125786(Certilation avantile											
9725 AC-60	1571872Emberica pusika									1.1.1		
¥26.4C-00	(481N5)(Emitteriza rytile											
9.227.342-549	CB3M2Paster domesticus							1.1.1.1.1				
228 AC-M	(267304)Passer meakiticas					1.4.4						
94229-340-09	57028P stater montanus											
¥290.AC-00	HE2550Patronia patronia	a sea a sea a sea										
9231.AC-110	45715(Cagrospice brachydachyle						1.2.2			1.1	1.00	· • • []
¥212. AC-80	(462176)Mareh/ringilla nivalis											
¥233.4C-M	SK057[Lonchura Halabanca							1.1.1.1				
22M. AC-IH	BBI74E.onchusea puroctulates											
9215-342-403	2411248.arlice miner		a latala i i a									
					U.	10.00						- 20
Seut	251 7 791, 792, 793 (251, 790)	Conserved 225/330	215 taxa satected									

Seat.	101 - 406,000 (100, 300)	Conserved: 225/330	205 taxa selector	
928.30400	SILNE-see minor		<mark></mark>	1 ( 1 ) = ( 1 ) = ( 1
£234.AC-344	BE745.cnchura punctulata		• • • • • • • • • • • • • • • • • • •	
WITH NO ME	S80257jLonchure melatrance	and a second a second	• • • • • • • • • • • • • • • • • • •	
¥202.AC-80	462176jhArmhriegita nivalia		• • • • • • • • • • • • • • • • • • •	
9211.46-118	15.71.5)Carpiorgize brachydactyla	a recenter a sere	• • • • • • • • • • • • • • • • • • •	
¥250. AC-0.0	4023500Patrionia patrionia	and the second second	<mark></mark>	
¥229.4C-08	SN28Petaer montanus		<mark></mark>	
228 AC-N	267304(Passer minelefficter		<mark></mark>	
光田太子家	253952Preses domesticos		<mark></mark>	
¥236.4C-8Q	451N5(Emberge ruble		<mark></mark>	
9725 AC-017	STLR72Simbertos putilita			
9224. AC-US	15786@ertheriax aurorite		• • • • • • • • • • • • • • • • • • •	
¥.223 AC-007	S/18/4@wbelcs.schoevichis		• • • • • • • • • • • • • • • • • • •	
¥222. AC-MP	SBEE75(Emiliarius strivilatu	and share a second second	• • • • • • • • • • • • • • • • • • •	
¥223. AC-6Q	BB1772(Emilienica leucocepitales		<mark></mark>	
220. AC-101	07806@mtunios.stavarti		<mark></mark>	
₹238.AC-0Q	AUTOREmiserics polifexalii		• • • • • • • • • • • • • • • • • • •	
12218. AC-8Q	481747(Emberice cia			
9.217 AC-IFR	BLRIE-betta fucata		<mark></mark>	
₹216.AC-60	O1967/Emberica calandra		<mark></mark>	
923 AC40	ORD33Emberga brunkeps		<mark></mark>	
¥234. AC-105	74776 Emiliariza matanacaphala			
¥.533.AC-6Q	404955pinus spinus		<mark></mark>	
¥212. XC-6Q	ALCOLOGIaminus planiflus	and a second at a second	<mark></mark>	
FILL AC MK	253989(Cardwdis carshedis		• • • • • • • • • • • • • • • • • • •	
2210 AC-01	D1250 Louis curvington		• • • • • • • • • • • • • • • • • • •	
¥ 308. AC-6Q	404550LHaria cannabina		<mark></mark>	
¥308.XC-6Q	683479(Linuxia Hautonottin		<mark></mark>	
WITH ACTOR	03200/Phodospica obsidieta		<mark></mark>	
2.26 AC-6Q	482049(Laucionticta Internity			
¥.205 AC-6Q	48/35/31.4ucorthicte nemovicola	and the second second second	• • • • • • • • • • • • • • • • • • •	
A LINE	and the second			CONTRACTOR OF THE OWNER.

(ii): Variation at Amino Acid Level (Variable Sites) in Sequences of Passeriformes Computed by MEGAX

Q Name	1-		• •									LY	1 1		6 4	. w .	4.6	14	6		3	LL	1	1.1	1	1	G Q	F 6	4 1	1.1	5						
21. BOLD AA/5733 Lanius vittatus	-																														1						
¥2.80LDAC22478Pvnia budanani													2.14										16	1.1	1.	14					1						
#1. ECLD:AC22964(Alassia guigula australia				ς.,												223			12								2.2				4						
¥4. BOLD AAD9679 Galerida olutata arevicula				4.4	-														1.1												4						
#5. BOLD-AB43000 Percent his particilance					1.0	1.		÷ .	10									2.5										÷.,			1						
V.6. BOLD AACIS30 (54-16 Curruce curruce																		1													4						
97. BOLD AAUBUH/Tephnoberis pendicenenas									10									. 1													4						
97.6. BOLD AD #025 Developotts vegebonds saturation							• •					1.11	ч.					. 1	1.1												1						
970. BOUD AA10140 Cervus splanders splanders							• •																		24		1.1				1						
210. BOLDIAACESNIPhotonicurus ochrunoi																																					
211. BOLD A&VOED Chrysamme simulae				+ 4				+ +	1	- : e			5.2			1.0		2.3				τ.,		- 14	1.	27	2.1		1.1		1						
9/12 #OLD AE2803[Limits schech schech				+ . +	-						+																1.1				1						
9 13. BOLD ACZINTS[Press southin southin		4.4							÷.)		+0				1.			. 1	100	۵.,			12					÷.,			. [						
934. BOLD AAXABH/Melanocorypha bimaculota				4.4				4.4			. 4 )	4.4						1.5	1.1								1.1				4						
215.80LDAC64748/Acrobitisess progimanus				1.1	-			4.4			14.1					1.00		23							1			÷.,	1.1		4						
916 BOLD ACSTIM/Collicate Juncidie				+ +	100			4. 4	-	- : +	+	4.4		-					+	-		4.4	+		+	3				-							
211 BOLD AND 13 Partor rooma																											1.2		1.1		4						
9/18. #OLD ACZ1839Embriliza buchanani		1.1				-		1.1		1.1	14.1								1.0												1						
218. BOLDIACHERS(Exemuptaria growus																						÷.,	1.		1	1	1.1	÷.,			1						
V 35. BOLD ARBIENIC inplificul entitivinul	- 12	4.4																													4						
#21. 60LD/ACZ/957[Onatus emetus															÷.,			1.1							1												
✓ EL #OLDIAA80623[Corvus cover cores				+ +				+ +	1									. 1	1.						14												
23. EOLD AAL2796 Periorecultus convenientaus				+ +			÷	+ 4	1.0			114				1.		- 3	1.	1				27.2	14	1			1.1								
V34. BOLDIACZ3674[Prints hodgeons		1.1		1.1	1.			4.5	4											.5																	
¥25. 800,D AAB2562]Zentarops paipalerous paipalerous																									1			÷.,			4						
₩25. BOLDIAANIBBITPycnonotus Inucogenys		4.4	• •	+ 4				+ 4											1.1												1						
#27.80(DACHEER)Phylescepte affinis				+ -				+ -			+																2.1				4						
9.35. ROLD ABASSING an us mechary monut					1.				+										1.0								1.				1						
29.80L0ACE7266)Copsyshele soulars analysis						-		1. 1										- 1									6.7				4						
# 30. BOLD AAYO281(hochaloptone leventure leventure						+ 8		4.4										. 1									1.1				1						
2 11. BOLD ACZ1040 Parate Huger							• •															3.3					1.1			V.	J						
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Sault 51 (151,152,153 (51/100)	10	eisble:	17/300				215 %	on take	-																												
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¥1. BOLD:AA/57338.anius vittatus																														-							1
#2. BOLD ACZ2478[Prints buchavani																																					-1
₩ 3. BOLD:AC22964(Alaszla gulgula australia						×								1.			1				÷.,					1.			1.2	-							1
24. BOLDIAAD9870[Galerida cristata arevicula																																					. 1
25. BOLD-AB35008/Percenthispenistensis			. N			Χ.				1						1.4					2	- 1	1	14					14				2.1	1.4			1
W6. BOLDIAA03331054via cumuca cumoca																																					41
921 BOLD AAUDEH/Tephnotomis pundcenenas										1											14												÷.,				41
92.8.80(D)AD(612)[DendroOtta vegabonda saturation																																					11
99. BOLD AARDIAD Cervus spienslens spienders					ι.																																41
≥10. BOLDIAACISMPhoenicurus ochruna			. N																																		. [
1211. BOLD: AAVIOE2[Chrysumme simetise					2.				1.2	12	21			1.1	21	1.1	1.			1.	12	14		2		1.1			1	- 11	2		÷.,		1		- 1
9412 BOLD ARZING Lanua schech schech											2.																										41
V13. BOLD/AC23875[Priva socials socials										1.1			1			1						2.5		1		2.4		£.	1					2.			. 1
¥14.800,D.A.K/4494(Melanocorypha bimaculata																																					. 1
15.80LDACS/04IJAcodotheren pirgimanus			. N																							1											41
9/16. BOLD ACSTIMUCIAI cola juncidia		+ -																																			11
217. BOLD: And BLIJP advertises			. N			×																															1
¥18.80(DAC2800Embrics bychanan						- 92																															41
92.18. BOUD:ACHEESS(Enerrorphics priseus		-			4.4	- 34	2		1.1	14	1	2.5	1		11	6.4	1.	-				- 5	1.			1.1			1.1	1.0	Ξ.		1.1	1.4	1.1	14.7	41
#20.80L0.A480EN0Carpoliscus etythrinas			. 1			×										1.																					41
21. 60LD:ACZ/957[Onatus orientes					2.						1			-						1.				4									2.1	2.4			41
SELE BOLDIAABSKEDI Convus contencionen																																					41
923. BOLD AAL2706 Periors advantation					÷ .					14				141	1		1.			2.	1.					1.							÷.,				1
W.M. BOLDIACZIN74[Prims hodgcons]																																					. 1
25. 8000 AM82942[Zentersps palpalerous palpalerous			. N								2.1		1								1		1.4														- 11
928. BOLDIALANBER(Pychonotus leucogenys																																					1
27. BOLD ACHEO31 Phylanespin efficie			. N			×																															1
928.8000AB95089Canat michleynchiat																																					41
29.80L0.ACI7266(Copsyshest sevilets anders						×							1			1	1.			1						1								8.1			
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✓1. BOLD-AAF5/335.ensis vittetus																																-11
2. BOLD/ACZ2478/Prina Buchanami														۰.		1.1																- D.I.
VI BOLD AC22004(Alastia pulpula asemalia		2.2												τ.		1.1		1.1	1.1		11							1.1	2.5			-10
✓4. BOLD AA0987003/enide cridate eremicate														τ.	. 6	1.1																. 11
S BOLD AB3000 Percer his participants					1											1.			1.1				1.4			1.4						- 111
We BOLD AACES IN DAVIE Complex Complex					1																		24					1				
21.8000AAU304(Tephendumis pendicarianus															. 🔒	2.1	Ξ.	1.					2.1			11					20.	
Wit BOLD ACH022(Dendro-Otta wepsbunds caluration																	Ξ.															
99. BOLDVAARDIAD(Carvus griandane spiendane	1.1				Se 1	1.50					4.14	1.				1.		12		1.61			2.4	. 1	£		÷.		1.	1.14		
910 BOLDIAACI338Phoencurus adminis					÷.										. A	1.1			2.5	1			6.4									
211. BOLD: AAV6080) Chrysomma simenia											÷.,				. <mark>)</mark>																	
¥12. BOLD AB2809E while schech schech																							1.1									
#13.80LDLACZ28P5[Prima ancialis ancialis										1.0				а.	. 🗚																	
¥34. BOLD AAX46N(Meterocorypha bimoculate														τ.	. 4	1.													1.			
215. BOLD ACE/040 Accide theres ging manus					1						- 14			н.						243	1.1			÷ .				- 1	1.		10.0	
€14.00.04C3BHUGmicikejunofis																			1.1				1.1									
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¥18.00.0 ACZIE0(Entreta tochanes					S																											
¥ 10. BOLDADHESSEnmophera griana					÷.,	1.1									. 🗚	1.			1.5							*1.4		1.1	1.		<b>1</b>	
₩ 25. BOLDI AABJETR Carpendacius etythology																			1.1				1.1									
#21. BOLD: ACZ/757(Orielus orielus		1.1	1			1.			. )	1.1	4.1.4					1.1	4.19	14	2.1	1.4	1.1	1.47			1.0		14.1	1.1				
₽ 22. BOLDIAA85623[Corvus cores cores															. A	1.1			2.1													
9/33. BOLD: AAL2336/Pericessitus sinnememeus						1.1									. <mark>A</mark>					1.		-					-				1.1.1	
V34. BOLD ACZN74(Prinis hodgson)																																
25. BCLDAA825422estarops palpabronas palpabronas						1.11													1.1				1.1			*1.4					1.1	- 11
✓ 36. BOLDI AAN (880) Pychonetus Rucogenys								1.1							. 4																	
21. ROLD ACHEO20 Phytoscopus affinis									÷ -									( P.	1.0				1.1			1.1					10.	
# 28. BOLD ABROUD Konus mechanyochus															- 14	6.								0	•	$(1,1) \in [0,1]$						
9/29. BOLD:ACK7200(Copy):http://www.ieubeis.coulieis																6.				1.0		1.00					1.	1.1				
30.00L0LAAV33E[Trochvisphoni lineatum lineatum																							1.1						1.			
VIIL 60L0.AC23140(Parus major	1.0					1.4			- 1	1.0			<b>1</b> - 1	а.		100		040	4.0		1.1	140	1.1			11.4	141		1.		<b>1</b> 114	- 13
The second second second second		1			_		11		-	_	2																					4
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21. BOLD AARS700 Junius vittatus																														-						ı
2. BOLD/ACZ2878Pvinia buchanani																																				П
9 1. BOLD:AC72964(Alassis guigote ayabrahis						1.1					1.			. ¥		1.					÷															1
✓4. BOLDIAAD9EXIGNerida cistata servicola																			γ.						20					20		1.6			1.1	1
915. BOLD AB35000 Passer hispanistensis		40	1.0			10				14	20					20			ь.					1.10	1	2.4			1.0	÷.				1.	4 6	1
P.6. BOLD AAC8390 Sylvia curruca curruca						1.5				6	1					1.1									24	5.		÷.,		÷.						1
21.8000AADDH/Tephnohemis pundicariana										1.4	1.					1.1	1.								1.	1.1	1.		1.4	1		1.0		1.	4	L
9.8. BOLD ACHEO23 (Develop of the wegebonds caturation										1															2					2					2.7	L
99. BOChAA95140(Cenne splenders splenders	1.1					1.1				2	13					1.										1.					1.1				4.1	1
210. BOLD-AACIS/IPhoenicurus adhrunai																																				L
911. BOLDLAAV60E0(Chrysumma sinamae		24				2.3		2 <mark>.</mark>	12	1.	2.3	112	-	. 4		2.1		14	ς.		2.1		14		1	2.5	1.1	4.4		1	2.74	1.	1.1	14	2.12	ł.
¥12.80(D)A82803/Lanks schech schech																																			1.1	L
¥13. BOLDI ACZ2075[Privia sostalia sostalia		90		-						1	10				۰.				х.		÷.,				1	1.1	1.1		1.1	÷.,	÷. 1	1.			2.2	L
¥14. BOLD AASIADQ Melanocorypha bimacubea																																				Ŀ
215. EOLDACEO/Bl/Acidathene programma						10					10								ι.		1				1	1.1									1.1	1
938.8000.4CSIIIII.KOmenia juncidie										1																						1.0				1
211.BOLD:AABIL13@externomes		40		1		1.1					1.1			. <b>.</b>		1.1					÷.,				1	÷.,			1.0	4				14	4.16	1
¥18. BOLD ACZIE00Emberica buchanami																													1.14					1	1.1	н
2 18. BOLDIACHERS(Exemuptaria grissus		÷.,				1.0	1.14				1.1	1.1				10	1.	1.4			1		1.0.1		1.1	1.5			1.					140	4.1	1
2.0. BOLD AABIENECH podocus etythologi													-			10									1										1.1	1
21. BOLD ACZ051 Division ametur		9.5	1.1	- <b>-</b>				14		1	1		-	-				14			10		-		1	1.5		- 14	1.1	1	1.1			1	1.1	1
C. Z.L. BOLCHAABS623 Convert content content						1.1				6	1.1					1.1									14	1.7									1.1	L
₹23, EOLD:AAL2206Periors of universities	1.	4.1				2.4	1.14			÷.	22	1.14		- 4		2.1	2.4	14			<u>,</u>	1.14	1.4.1		1.	1.1	1.		1.1	1	÷.,	1.01		1.4	2.2	I.
# 34. BOLDIACZ3874[Prints hodgconk																										1.1				÷.					1.1	L
V.X. BOLD AABODG Zestengs palpalerous palpalerous						10					60					10			- 1		10				÷.	110				÷.					2.1	L
25. BOLDIAANIBBO(Pychonotys leucogenys																																				L
927. BOLD ACHOSI Phylanorpus affinin													-			1.1					۰.					1.1			1.1						1.1	Ł
2.8. BOLDABASSING anus machaynchus																																				1
#29.80LD:ACI7299/Cepsyshus saularis asularis						1.5				1	1.1					1.1					1				1	1.1				1						1
2 30. BOLD AAY3302 Trocheloptonin lineature lineature																									1.	10			1.16						1.1	1
#19. BOLDIACZIG40(Paras major			1			1.1				- 1	10					10	1	1			1	1		- 6		10				1			1.1		1.1	L
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The Transmission of the second second second		wield.	. 11.	228				715	i																											1

Manu	18	N.	1	8.)	4.19		1.1	M 1	्र	10	0	2, 1	1.1	- 14	т.	1	F 1	0		A.	6.1	6.6	0	P 1	1. L	N.	Q.)	4.1		W.J	1.1	6	н.)	1.0	Χ.	6.1	1	1.1	1
✓1. EOLD AAF5713 (Lamise utilater					1.									1.												-											1.0		-
VI BOLD ACZ2010Prints Buchaster																																							1.
C. BCRDACZ264(Alauda pripula australia					2		40		1.			۰.					÷.,		1.4	÷.,			1.					1.4				41	÷. 4	- 14		1.1	141		1.0
¥4. BOLD AZDRENGGelerida cristata arenicola									1.																														
✓S BCI,DrAErS308/Person hisparticitation							1.1																										ι.						1.1
976 BOLD AACISSING/Aria curryce curryce																																						1	1.00
97. BOLD: AAU3034 (Taphrodomia panakoniana				Ξ.		1	10		1														÷.					÷.,	1.1					1.1		2.7			1.1
R 8000 ACH025(Develocits vegebords saturation																																						10	
99. BOLD AAR9140(Convue splandarte splandarte				ς.,		1	10		1					1.	12						87		1					1										1.1	1.1
¥18 ROLD AACIS IN Phone curus och unst																																	6.1		11	1.14	1.00	6.1	
211. BOLD:AAV5282]Chrysemma sinanse		14		Ξ.			10		1.4						141						÷.,		G			1.			12		1.5			1		1.14	-		
#12. BOLD AB28039Eannus schuch schuch						4	1.1																						1										
#13. BOLDIACZ2475(Prine socialis accialis					14	4	10		12						121	-					11		G			123		04			224				1			1.1	1.4
¥34. BOLDIAA/44N(Metenocorypha birriaculata						۰.	1																																1.4
#15 BOLD ACER748 Acidsthese geginierus							10																						1.1					1.	40				1.1
P16 BOLD ACSIDIL/Citicity percels																																							-
217, BOLD: AA82L12P autor version						14	10		1.1																														1.16
9.18. BOLD ACZ180(Emberica buchanani														1.	14						1.5																		1.00
# 19. BOLD AD 4855(Enrouptorio granus		14					10																													1.1			1.00
₹20. BOLD AABIENIC appedicus enthémia									1						14																								
23. ROLD ACZ/157[Oratia status						1	13		1						12						11																	γ.	1.
VE22. BOLD AA85623[Cervus corex ceres						1																	÷.																
21. BOLD AAL2706 Parkets stream and							10																÷.						1				÷ .	1.1					
K.N. BOLDIACZJENIJPinna kodgoone					1	4										9							÷.																1. 2
125.80L0AA8290[Zesheropy palpebroous palpelineses					1	х.	13		1.						14					-	2						20	104				121	÷.,	1.	2	1.1	225	÷.,	1.4
2.25. BOLD AANURRIPycnamitus leucogenys					28	2	1																																1.00
#27.80LDACH0331Phylmospos affins							1.5		1.4																				1		1.1			1					
# 38. BOLD ABV/SUBSICIOUS macholynchus																					2																		
29.80LD ACI726(Copeyther saders seclars			10				11		1.							1			14	-										+ )				- 6	+ 1	6.7			1.11
≥ 30. 8OLD AAV3383[Trochelopteron lineatum lineatum																																							1.0
VIL BOLD ACZIDA/Parat mijor		1					12		1.						14								÷.					1	10				1.	1		1.1		10	1.00
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14+4 21 (Crist 152 753 (551 (130)	-	27	525	dina		-	-	-		-	22	1.1		-	-	-		-										-	-	-	-	-	-	-	-	-	-	-	_

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9/30. BOLD ACZISHIJU mine 1	Revisionalia Revisionalia					+ +							· · ·										1	
VIL BOLD ACCERTS/Stichyria	lognic gynhops	1 × × ×	1. 1. 1.	1.1		4.14							1	· · · ·									. 1	
14 14. BOLDIACSA664[Terpriphe	ine paradai paradai												1						1.1	1.1		1.1		
₹ 8 BOLD AACS711M-opher	nus comuleus	A 4 4 4	1.0.0	1. 1. 1		4.14		+					1.1.1	6	2.2							10.00		
Wik BOLD ACZ3808(Physioph	en linanse ophalius	A									1.00	1.1	4 24	Carlor.	22.2				2.4	2.4		2.2		
FIT BOLD ANDTUID COUNT IN	hicophaeus	1 1	1.1					1.					1. 1. 1	(					100	1.1				
218. BOLD: AC2304(Emberina	Salfuers					• •							)	6	22				6.14	1.1		4.4		
9.98 BOLD ARCLINSPILLE OF	stamoneus sutilans	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				• •							1.1.1	Q										
#40.80LDAB/05180/Censia m	nacrohynches	1. 1. 1. 1.						1.0	- 1			4.4	5.53	C	2.4				1.1	1.1		2.1		
941 BOLDACHERLIDINATER	Hus suboriue	1 A. A. A.		× + +		1.1							1.1.1	Carlo A.	5.4									
#42.80LDLAN/IMOR/Ownanth	e picela	1	1.4	1.4		4.4		(+) = 1	1 <b>.</b> .			212	2.54		2.2				1.1	1.14		9.47		
943. BOLD ACZ2962 Cepsychi	a fulcatur	P +	1.1.1	1.18	(*)*	÷	1.1.4	+	e . 1				1.1.1	6								A		
#44. AC-ABB40301/Fitta teach	tyura	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1.1									2.2		- 1		1.1	1.5		τ.,		
245. AC-IQ173908/Aegithina.t	igNa	1 A. A. A. A.	A			1.1							1.1	la in										
9746. AC-5594030348.amius sol	luria	A 414 M	1.0.0	1.4	141.4	4.14	1.1.1	(4) (0)								1. 1. 1			1.1	1.4		1.1		
9.47 AC-SQR2079Lavius-isak	ulina:	1 + + <u>+</u>	1.1.1	1.4.4		1.3	<ul> <li>+</li> </ul>	(±							2.6							2.0		
#48. AC-GQ482003Lemus one	fatua	1 1 1 1 1	1.1			1.1			- 1			20.0	8 F.S					1.14	4.4	6.4	10.0			
9249. AC-0521598Eanius high	Honofus	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0.0			4.4				1.1		115						• • •	11.1					
9250. AC-39400706 (Lamina and	letur	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				• •						1.14	3.80		2.2				6.4	1.2				
₹31. AC-SQRE22RIONAUL di	krencit.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				• •							. T. I	<b>1</b>					1.1	1.19		S. 4.		
252 AC-X024696Duruna m	acrocanojak									1.4.5	6.147	1.1	÷ • 1	Caller	2.2				1.1	1.1				
#53 AC-ROI 1000 (Dicrums he	MeRMUI .	1 1 1 1 1 1 1			100	1.1				A			1.1.3	1						1.1				
954. AC-IQI78110,8hipitawa	uraria	1 + + + + + + + + + + + + + + + + + + +	1. 1. 1.	1. 1 .	(*)*)	÷	1.7.4	10.0				1.14	1. 1. 1		914				1.1	1.14		944	- ×	
¥35. AC-RC354829(Hypothym	AL ROVIES	1 1 1 1 1 N	1. 1. 1	1.11		4.4						÷.,,	S & A	6 a					1.1			÷		
9/18. AC-SQ4E1380(Gendus g	latidatus	1 1 1 1	1. 1. 1.	2.4		4.4		10.00				- 11	· · ·		2.2					1.1		S. 4		
257. AC-X0178603URDODD et	dirpdiyndia	1 1 1 1	1. 1. 1.			+ . + .	* + *	1.00					1.1	G					2.4					
≥ SE AC-GQ4E2478Pica pica		1 + + <b>-</b>	A . A . A			1 1	* 1.1	59101				1.1	1.1.1	6 - C	200				$(i,j) \in \mathcal{A}$	1.1		1.0		
另外,AC-6051555月60098月8	CHYPCHERTHE	1.1.1.1.1.1.1.1	1 - 1		1.00	- K.	010	Τ.,					1.1.1	1	200							S. 4	1.1	
240.AC-0Q48255(Pyreleans	a pyrtheorem	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0.0	1.1.1		1.1		1.0	- <b>7</b> -				5.00	1		1. 1. 1			1.1	1.1				
WEL AC-EQUEDT(Pyrhecen	n gestalut.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. 1. 1.			1.1		(*) 0				2.1	2.2.3		8.8	1 1 1	1.0	• •	1.1			2.2		
942, AC-SQEESO/Corvus mi	inadula	1 · · · •	1. 10. 11			• •			- 1				1.1.1			1.			0.14	1.1		1.1	1.1	
M. M.	1	1.5																						
584 <sup>4</sup> 51 (2) 23	1,152,153 (51,100)	Vereble 37/2	6		215 to	in relati	wid .																	

Q Name	0.0	0.0.1	T.1	N V	t v	1	A.H	A	F Y	м	t F	1.6	t V	M F	1	M. E	6	6 1	6	N W	1	V P	LM	1.0	5.4	¥ . 5	M (	A 8	R . M	N 3	
9/32. BOLDLACZ2546[Lhociasa flavinostria flavinostria																															1
✓ 31. BOLD ACZ20755tachyridogait gynhopi																															F
9 34. BCLD(ACS4864)Terpsightere paradici paradici					Υ								5.													÷.,					
✓35 BOLDIAACS7LIMysphonus cemérus			÷		¥								÷.																	2.7	
9236. BOUD AC23080Hypropeter Instrocephalus					Y .:				1.2			÷.,	1									2.4						- +	1.1	1.1	10
WIT BOLDIA48/TIT(Dicturus Insceptionus					٧.								24																		19
218. BOLD:AC2304(Emberica lathami		N	1		٧				1.5				14					1.5								÷				10	-111
2.8 BOLDIAACLISSPesser cintamorneus rublats		N			٧																										10
#40.80L0ABMSD80Cervia macrohymhes	1.14			1.1					4.6			1.1	1		1.0	1.1						1.1						2.4	1.1	1.1	
941. BOUDIACHEREI[Diffectorius suborus																															
#42 BOLD:AAW0036Oenanthe picata				1.	۷.			41	1.1			26	1.4	202			1411				1				1.2	61.5	1.0		212		
9743. BOLDIACZ2952Copsychus Pullcatus					٧								1																	2.5	
#44. AC- ABH1701(Fitte trachysee				2.5				9	÷;	-			1.									1.1			22			Ξ.			
9245. AC-IQ173908Aegithina tiphia					٧.				1.6				1.					1.16													
246 AC-594030348 arrive collared									1.1				24	1.1	1.6									1.1						1.1	
9747 AC-6Q462078Lavius isobelinus																															
248. AC-GQ482003(Lenius cristutus				1.1	2.2		1.11		4.16		1.1		1																	1.1	
949. AC-09521599 Eanius hiphronotus													14																		
250.AC-JH002068.amus anoshitar						1.0			4.15				1	÷.,			14.5		1.0			4.4				1. 1				46	
¥33. AC-9Q6E2278[Onelus divinesis					٧.				1.1																	÷.,				1.1	
2 S2. AC-JQE74606Disruna macrocamus	1.1				Χ			1	4.16			-	1	1.1	14.7		1.					1.				10				4.1	
€ 53. AC-IQL18890(Dicrurus hottestattus)					¥. 5				6.10									1.14													
954. AC-02178110;8hipidara surenia		<mark>.</mark>			¥	1.00		40	1.	10		61 A	1.0	1.1			14.1			1.1	197	÷		1.1	1.4	1.1	1.00		-14	1.1	
235. AC-KCI54828(Hypothyme asunta					٧																										
9/16. AC-SQ681063(Gamdus glandarius		( s <mark>-</mark>			1.1														10						1.4			÷ •		1.1	
257. AC-3Q178603Ukoossa erytivorkyncha																4.14															
258. AC-GQ4E2478[Pics pics	1.1						1.1		1.17				1	÷. •													-			100	
939. AC-6057339; Filodinge ceryechtetes									- 1				1					- 3													
240. AC-SQ4E2526(Pyrhamanas pyrhananas				÷ 1			• •		1.10				1	1.1								1.1					1.0			1.1	
Will, AC-6Q462570(Pyrthocomic gradulut													1					1.1													
942. AC-GQ82567 Corvus minimitula					1												14.5		2								1.0	÷. 4		3.4	1
£	14.1	_																													Ei I
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9/30. BOLDI ACZ2546 [Unpointed	Revisorbie Nevisorbie																							м.								
WILLBOLD ACZERTSIN (W)	depait gynhops														14																	1
14 14. BOLD & CS4664 (Tarphiph	one paradici paradici																				÷.,	1.1				÷.,						Л
TO BOLD ALCSTLIP Aropho	nus constituis													٤.																		1
WIE BOLD ACZIER Physical	ten lasinocephalus					1			÷.									1.1										Ξ.	÷.,			1
WIT BOLD AND TITID COURT	Inucophanus																															4
218. BOLD:AC2004(Emberia)	a failfuatric					14											1.00															1
2 IB BOLD ANCI INFINIE O	interneting rubbers														A																	1
940.80LDABASSRCense	macrohymhea					- 62					2.4			ŧ.,				22										1.1				4
241.80(D)ACHE30(Diffueto	mus sutorius																															
742. EOLD: AAWINGQOwnanth	hepicala		1.1		14.14				14								1.40		1.			14	11.			- 11	1.2	2. 1			1.1	4
9243.80L0 ACE263Copych	NO Publication																															4
244. AC-ABH1701/Fitte bree	hysee			÷.,				1.			Ξ.					1.14		1.1					2.4						÷.,	τ.		.
9245 AC-IQ17808Aegthina	typhia				1.1																											1
(€46, AC-5948380348, arrive re	durie		1.14			1.10						2.4					1.00												÷.,			đ
#47. AC-SQ4E2078Lavius-Isa	belina:																															1
248. AC-GQ4820031 error of	datus				1.1															1.		1.										4
57.49.3C-0521398Eanus http:	hiolotus																									10						
955.AC-39887883.amin 100	deter				14.14	1.			14								1.0	1.4	140			14	1.		1.1		1		÷.,			4
i₹53. AC-GQ4EZ278[Onelus d	Unercit.									£																						4
SEE AC JOE HEARD IN YOR IT	INCODERING I					1.00											140											1.14			4.	
€ 53. AC-IQL1000(Dicruna h	attestattui																															
999. AC JQINII (Bripidate	evenia		1.14					1.14	1 a 🔒			14					1.00	÷	1							27.	1.1					- 1
975 AC 803545594 godyn	NO ROUTER																															. [
918. AC-SQUEDBIGENSIS	plandarius		1.11														1.									10	1.					1
9757. AC-30078603Unoossi e	ythickyncha			1.1																				м.,								4
298. AC-GQ4EMBPcapes																						1.1		н.		1		1.1				4
9759. AC-6USTS90; Ploofinge	CRYPC/RINTES				1.1															- 14								ι.				1
946.AC-SQ4E253(Pyrhams	as pyrfusses																											1.1	÷.,			4
SHE AC COMESTER/Information	ini gradulut.																					1.1										1
PRI AC-GQ80567[Cenverm	utedula		100		1.0	1.1					- 1			а.			1.1	1.4	1.		14.1	1.	1.1	м.								1
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She2 151 (-4	452,451 (152/180)		eisble:	11/28	1			215	tere rei	-	1																					

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9/32. BOLD ACZ2040 University Review this Review the					
W33 BOLD ACZ/SONStachyndegen pynhops					
#34. BOLD ACS4864[Terpsphere paradici paradici					
37 25. BOLDIAACS7L3Myophonys camzeus					
V 36. BOLD ACZ2008(H) graphics incorresponden					
V 37. BOLDIA48/12/[Dicture Inscophene			A CONTRACTOR		
VIII. BOLD:ACZ309(Emberga lathami					
9 39. BOLD AACL199Pisser ownamoneus rublans					
9740. BOLD AB/3560 Carrue mecro/hymrhee					
241.60LDACH620(Dithutomus sytomus					
242. BOLD(ARW0006) Desarthe picate	a la cardada a la				
9243. BOLDI ACZ2562 Capay thus full catus					
244. AC- ABHI201Pitta brachyses	V			A A A A A A A A	
9245. AC-JQ17900(degthina turka		I FWAR BUILT FUR A PA			
46. AC-ASHDBD143.ansus collumn					
247. AC-6Q4I2028Lanus isslerinus	1.0.0.0.0				
9/48. AC-6Q482033(Lamise cristellas					
949. AC-49821598 Lanius Imphronotus					
950. AC-IF49788 Lanias mostidae	activity and a company				
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2 S2. AC-3QE74606Dicruma meconowicus	A 14 A 14 A			the state and the	
9 55 AC-IQUMBRODICIPUIUS hottentamus					
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256. AC-CQ40063(Genzie glenderin				P	
9.57 AC-IQL/M003UID-Osta eythrolly/hoha					
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946. AC-MHEBRINHEarline collumn	1.0					÷.,	1			а.		147			÷.	1.4	14					40			Ξ.				1	21	2.4				
¥47. AC-6Q482028Lenius isolitefinus															1										1					1					
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¥49. AC-IP021398Eanius tephronotus															S .					1.1					1					S					20
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Appendix	r F

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1250. AC-1840	0700 Lamice exceletor					4			1					• )			1				0	1	20	1.5		1.1	1		1.			1	9.6	1.5		2.7	1.1	
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9/48.AC-004	482003Lensus cristatus			14.		141			14.			14											83		1			*			ς.,		*	1.1		÷.,		11
947 AC-6Q4	420201.enius isobelinus	-		1		1	+ 1	• •	-	3.5	• •	-		-			1				1	1	1			1.	-			÷.		1			-		1. 10	1
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945 AC-101	7300EAegithina tahia						ς.							ε.			90		1.4	÷.,		1		1.1					1.					1.	4		1.1	1.1
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243-80L0A	CZ2563Copsychia fulkcatus	-		1		1		÷ -	1	10	1		1	÷ .		4	5					1.5		1.					1.			1	2.					-
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248. AC-00	HISH20 Calendralia nafascana		40			÷. 4				1.1	1	а.	6.6			14		2.5	1.1			1.4	2.1	1.6			1.1	-		1	1.1	- 10		214	1.1		147			14	
¥m.ac-60	NE2E0/ERiperta riperta	- ×			-		1.4	4					5		1	141			1.4			1.4	14.14			4.	1.1	14		ω.		1.4		4.14	1.1	1.0	14.1	20		14	
271.AC-60	422500(Riperis Allula	1.	÷., 1										.,.			14.							1.1								1.1			1.1	1.1	1.0					
972 AC-6Q	482570(Ptyonoprogre rupetinis		+ . •		-			-	÷.,		-					-	-		-									-	-	-		-					-				
ATTAC ME	980225(Phyonegregine Fuligade		÷.,				÷	-			+		6			-	+ 1		1		+ -		3.4			+ 1	. +	-		2.			-	2.7		1	-	+			
974, AC-897	7545109Hounde natika		+ +					-					6.7			147	*	0.1	1			1.0					1.0		-	2		1			1.5		100	-			
11 AC-60	403333/Pfevendes emilité																		1.0				4.1	1			0.4				1.04			2.0	0.1		1.			1.0	
¥16.4C-00	483530(Cecropis daurica		10	1.00				10				4	6.5			. *)			1.8	1				1	۰.	-		1			1.14	1.0		1.7	0.5	1.16	141	10	1.1	1	
PTLAC-0Q	401605[Delichen urbicum		1.5			6.4			a a	1.4			1.1		1.	4.						1.4	4.1									1.0	14.1	1.1	1.1					1.0	
WTB AC-SQ	M1002Delchov datipui					÷.,				1.5										1		Ċ.e					0.4		-		1.1	1.4		3.9	1.1	1.4	1	* 1	÷	-	
975 AC-IQS	Dis258hipidura hyposantha		1.5	1.1					20	1.5	14		23	1.6		240	1	2.5	1	10		6.9	1.1	1				14		20	1.14	1.0	60	2.7	i i		(m)	10	1.1	24	
¥100 AC-100	DNINS/Curkcicage onylenensis		3.5		-				2.5		1					14	80	0	1.4		• •	14		1							1.1			1.1	i e					14	
VILAC-312	25700)Capitalogynus Hammicapu	- A	4.5			÷. •	1.4		20	1.4			6.6	1.14	14	14.			1.4	1.	4.4	1.4	14.14	1.4		4.5	1.1	14	-	κ.	1.14	1.4		11	1.1	1.4	141		1.14	1.4	
¥82.4C-05	00790/Periparus atter		1.1					40	2.1		-			1.	1	-			1.2			1.4	9.9					-		2		1.14		2.12			141			1.4	
PRI AC-HQ	228294(Partis rubidivertins		4.5						-		Ψ.	4.				-	ν.	1.1					2.0						-					1.17						-	
PHL ACHIN	685104g.ophophanes dicheuse		÷.,		-				÷.,		-		- 7			-	-		12	-				1.0		- 1			-	2		-		5.7			-				
915 AC-00	481883Cyanistee system				-	÷. •				1.0						-	4				÷														1.		243		1.14		
¥86.AC-08	431250Parus menticolus		6.1	1.0	1	t 3	-	V.	¥ . 7	£Υ	Ŧ	A	6.X	ε. <b>κ</b>	1		1	51	. 14	6	M V	1.98	4.5	1.1	5	1.3	5 1	Ł.	6	٢.	1.14	C.W	Α.	H.F	é M	1.1	τ.	4.1	6 M	0.0	
WIT AC 4th	\$736799Ramie perchakree			1.6							140	4	2.5		1	1.00	*	1	14	Υ.	204	1	20	1	÷.,	- 1	0.8	1	16	1	6.54	1.4	1.		15	1.0	14	90			
¥88.4C-HQ	005200 Aegebakes concisions		8.9	1.1				81				4	6.5			1.0		• •		۰.	÷. +							1		1	1.1	1.0		1.1	1.1		18	1.1	6.14	-	
VIII. AC-104	6714358ta cadminatoin		4.1			÷ .		1.1	÷.,	1.4	1.4				1.		5					64	4.4		14		1.1					1.	1	1.14	1.1				÷	1	
990.40-638	67157(Sitta tephronola		2.9										6.0			÷.			1.0			1.	9.1				1.		-	2.3					1.1					1	
P. SIL AC-ADA	67146(Sitta frantala		4.5	1.1					2.1	1.2	14		1			140	κ.		12	10	2.4	19		1		20	24				104	1.0	1	2.4	1.5			20		24	
992.AC-00	482777[Chedrome mutaria		*.*		1	6.4		+	2.1		.+	-	÷.,		-		+	4.1	1.4				- 1	1		* 1	1.4	-		-	1.14			- 1	1.1			* . *	• •	1	
¥15.AC-693	2825250Carthia hosigares	1.1	211					1	2.5					1.14	1	141		1.	1.2			1.4	1.1			2.1	1.4	1		10				2.12	1.1	1.0	1	1.1		1.4	
																																								16	ŝ
See.	301 (Frank 1002 MIT (101/1301)	14	للأجانين	a 327	100					2354		رنيابن	ŵ.																							-					

Marra		1414	1.1	2.10	1411		1.1		- 14			4.1			н. н.			20.14		1.00	-	0	+ . *	141			-	1.10	1410		-1.1		ŝ.
63. AC-0Q481640(Convus thugkegus	-									-							-					1.0		1.00									1
64. AC-68571325 Penurus Internacus	-			1.1				1																÷.									1
65. AC-11465300/kmmumumarax alavarti													1.1							1.		-				1.01	- 1			1.14			1
66. AC-MERO200Exemophene nightings					1.1	- 14														1.		1.	• •	1.					1.0	1.11		1.1	1
(67. AC-SQ483854[Eremophile alpestric	1.1			1.1			1.1					4.1	÷ 6.	1	1.4					1.00		1				1.00		1.1		2.2		1.1	1
66. AC-SQ40372[Calandella acuticodels		1.0.0					1.1	۰.										* .*		1.			• . •				1.1	1		÷		1.1	1
60. XC-GQ485628Calandralia rufescena		1.0																		1.				1.					1.0	1.1			1
TB. AC-GQ482005(Riparts riports			* 4	* *							• •	3.0			- +	1.1				1.		100	2.6			1.00	1. 1	1.6	1.	1.1			l.
T1: AC-GQ4E2NE0(Figure dilute			6.4	1.4		1.	6.4	-		-										1.		. •				1.0	- 1			1.04	10	1.1	1
T2. AC-0Q482578Ptyshoprogre rupestris			1.1	1.1	1.40.1	1.4			- 14											1.0						1.00			1400	1.0	1.0	1-1	į,
T3. AC-M9580225(Ptyonoprogra fulgada					14.14			-	1.14			4.4	1.5				-		-	1.4						1.1.				1.		1.1	í.
74. AC-KYZM300Heunde natica	-		1.1	1.4		1.00	1.14									1.14	-		14.14	1.						1	1.1		(a.) (	6.10	10.10	11	l.
75. AC-60480335Pleurals amitha					10																		1.11			1.00			100	1.1		1.1	í.
TE AC-GQ4EISUS/Cecrossis deurice				1.1				1				1.1	1.14							1.										1.1	1.1	1.1	1
77. AC-GQ481685(Dviluters urbisum					1.1			10					1.1	10.00						1.0			• •			1.10				1.11	1.1	1.1	1
Th. AC-GQ80882[Delichen desput			+ +	1.1			+ +						1. F					1.1	-			194	• •		+ -		-						1
TR AC-IQDEDIS/Physiches hyperawtha																		* .*					÷.,=			1.0	1.1			1.1		1.1	1
BD. AC-IQUININGCURCICIIJIA crykovensis			1.1			1.0	1.1					1.1			• . • .					1		1.0				1.0					1.1	11	1
BL AC-D025707[Cephalopynus flammicape				1.1		. •	1.1			-	1.10	10				1.1	1.00		1.1	1.0		1.0	1.14			1.00	1.1	6.64	1.	1.1			1
(82, AC-0000700/heriperus ater			1.1	1.1			1.1							10.0		1.1	1.0			1.1		100				0.00	2.7			1.1		1.1	1
(83. AC-HQ228194/Paria rubidiventris				1.1	10.1	1.4			- 14								-			1.0	2.14			1.00		1.00			1000	1.1	20	1-1	1
84. AC-HMI85354), ophophanes dictione	-	+ +	+ +	2.5			+ +	÷		14.1	- +	-		+ •		+ -	. +.			1.		100	+ *	. + .	+ -	1.00	- 1		+ +	1.1		-	1
(85. AC-GQ481683)Cyanistes typesa		(+,+)	1.0		+ +		1.10				- (+		1. 1		÷.,-,		G.		4.4	1.		1.00			11.1					1.3			1
RB. AC-3/849725/Panis menticolus	1	6.7	1.6	F 1	¥ 7	1.4	H H	м	1.1	w.	6 M	p (	V 15	1.1	8.4	Y 8	1	S A	7.8	1.1	1.4	1	F 7	- 6	1.1	1.1	F 3	s w	1.1	6.1	1. H	10	1
ET. AC-60573679/Ramis pandulinus				1.1			9.14					1	1.8	10.1	1.1	1.1		1.1	10.0	1.1	1.1	18	101	1.00		0.00	1.1		10.1	1.14	1.1		1
38. AC-HQ82528IjAepRivios concinnus	-	+ + +	+ 4				4.4					-		+ -		+ -	1.0	- +		. +		1		÷.,	+ -	1.0	-			1.1	1.1		1
(80. AC-CHE7143(little cashresivensis	-											-		+				-		1							1			1.1		1.1	1
(90. AC-KOME7357(Sitta tephronota	-		1.1									-					. *			1	- 1	1	• •			1.10	1					1.1	1
(21, AC-KH62146(Sitta frontaña				1.1	10.1	1.0														1.0						1.00				1.1	1.1	11	1
(9) AC-SQR2777[Chodrome Awaras									4.14		• •	1.1	• . •		• . •		+						• •			1.0	+ )			1.1	1.1		1
93. AC-80262525/Certhis holdgeets			1.14				1.14						1.1	10.0		1.1		2.4		1.0	- 0	18				0.000	5.0		10.0	1.1			į.
and the second sec																							1	-			-	A			_	124	
THE COLORED AND AND AND THE TANK	N.	winter ?	12/000				216 4																										1

Rhame		1-		-				1			•		1	7	- 1	Y.	LI	÷	6	A 18	( 4	-6 M	1.1	6 T.	A.1	. 3	1.1	. 1	π.	A	E 1	6	Q #	-0-	A 1	1.4	Ē
294, 46-10	772837/Tronglock/eas transfordy tax			- 1				-		-	4	- 1	1 (	6	τ.,							1.1	٧.														1
295 26-00	S71819(Cecha dedus									-	•		1.		s 8								٧.												5 .		1
496.AC-40	WilSi0(Centus pallesi									- 64													٧.		÷.,					24		÷.					4
¥97.6C-144	98897Pychenotus cafer		4					+		-	÷ .				•								Υ.														4
YOLACKS	\$20058(Pycnometan jacomus		1.0					+		-	÷		1.		÷.,	1			4				٧.									2	1.4				
999-AC-00	x82599,Repulse regulas	-		-				+			•		-		•								¥.							10							
¥100, AC-0	Q681567[Cettie cetti			-						-		÷.)	1.4		• •	1.			1.1		1.		Χ.	1.				1.				1	1.1				
9-30L AC-6	0372022 Phytlescipus humo			- 1				+		-	•	• •	1	(*)									χ.														4
9/102 AC-M	9060480@hylkscopus.grimetus	- 14	Ŧ	1	L N	A 1	N L		5 I	N	н. і	κ (	1.1	6	t .								Υ.		40		ι.			1		10	1.1				
R 103 AC-0	ULTO PRO Phyllocopus cellybra		4.	- 1							•	4.1	) ÷		÷.,							. 1	٧.														4
9/104.AC-0	Q462461(Phylancopartrochiloidea		+	-		+ -		1.4	÷.,	- 60	÷		1.4		÷	14					14		٧.		100		ι.	1.2	141	12	1.2	14.1		2.4			
¥105 ACH	Q838977P%/Rescupus magnirectris		+	-		8.1	N L		3.7	N	H. 1	κt	5.1	6	t								Υ.										1.14				. [
SETTIME AC H	Q0388E5Phythescopus regulatidas			-		8.1	W 1	1	1.1	31	н.)	ĸt	1	ů.	τ.		ι.,		10				A.		÷.,									100			1
\$107.AC-G	Q4E1575Bitura caligata		4.						2.2	2	۰.	•	. 6		÷								٧.														1
¥108.AC-K	NS31773Anna nema			- 1							a. (	ē. 1	1	14.1	÷								Υ.		4.5								1.14	1.00			4
¥109.AC-K	#5037(Hippolais Tanguida		-		÷.,	+ -		+		-	+	4.7			÷.,								×														4
£110.8C-0	Q481267Acrocephalus melanopogon			-				+		÷	•		1	+	• •		κ.		1				٠.		н.								2.4				
94111.AC-0	0571212pAcroceptulus agricole		47	-		8.1	K L		5.1	N	н.	6.5	1.1	6	ŧ., .	1	÷.,						¥.							10							
SELEXANCE	NSIL22Acroceptulus consinues		1.	-							•		1	00	÷.,	14	ι.				14		۰.					1			1.5	1	1. 14	1.0			4
₩111.AC-A	BEROSKZACKOGRAINE durinationum	-		2				+			+	•	1	÷.	t																						
£114.AC-0	Q48L3E0(Acromphalus stepaceus	- I.	4.	-				÷			•	1.1	ι.e		÷								Χ.		4.1												
97115.AC-8	MATZRIAcrocephilus arundinaceus		1	+ 1	E N	8.1	N 1	Ŧ	5.7	N.	H (	K (	1.1	6	ŧ.,								×.														4
9116.20-6	XSIIS7(Acrocaphalus stantonus			-						-	+		1.6		+1	104	2.5				2.4		¥.					1.0	140	27		1.00		1.4			4
94117. AC-IP	937523/Megalurus palustris		140	-	•		4.14			-	•	4.4		1.		2							٧.		5												
HTIR AC-G	US719516.exantella maevia								8 B		۰.	۰.۰		18.5		14			1				Υ.		1.					1	1		1.1	1.0			1
WILL ACH	Q8388NPhina chiqera					<b>R</b> 1	W L		5.7	N	H 1	ĸc	1	6	τ								Υ.		5					2							1
¥135, AC-6	UP20450/Prinis gracilie		-	- 1		1.1		. +	994	180	κ.		2		τ								Χ.		ж.								1.1				
918-ACH	Q008882Printe flaviventris			-		A. 1	N L		5 T	N	#	ĸit	1.1	6	٢.,								٧.		5												
¥122.AC-6	7340052/Prenia internata		1.0		16				2.14		۰.,	- 4	5.4	-G .	τ.,								¥,		τ.								1.1				
9113.AC-R	20163225yhira meno											4.1				1							Υ.										1.1				1
¥108.AC-0	US72123/Sylvia miseria			-																			Υ.									61					4
(F)	11. E	1.1																																		1	a)
Shut .	51 101 101 102 103 103 (200)		Sec. 1	4. 2	1000					-																											

Warns	0	0.4	5.1	- y - y	4.4	1 1	1.7	- A.	н.		- ¥.	м;	1.1		- M	У.	M.7	9	- M	20	9.9		9.1	u w	1.6	×.	P 3	U M	1	<b>9</b>	A. 7	0	м.	A.)	1.1		MOR	6.98	ž
9194. AC-40772837/Freglesh/ten trogfosh/ten															1.4										1.							- 4							I
95 AC-60570839Onche ondus			. N			х.,														ς.,																			í
998. AC-0Q482380 Circlus patters						Χ.					1					۰.	11					4			1.							1	4			1			l
2 st. AC-IE88897Pycnonetus cafer						Υ.																																	I
₩98. AC-KIS20058(Pycnenetus jocenus						Χ.															1.1											1.1							I
9499. AC-6Q482599(Repulse repulse																									1														ł
12100. AC-8Q481547(Cattia catti												1									1	1										2	13						l
2101. AC-00572012Phyllescopus horne		1										1			16		1.1				64		1											1					I
102 AC-MORDER/Phylipscopus presence			- 8			×.		1								Ξ.	1.1				1	10								1		11	1						ł
2103. AC-RURTOTHEPhylhocopus caliplata			- 3			х.													1.45																				I
104. AC-6Q460462(Phyllescopus trachiloides						х.		- (4)						÷.,		-	1.1		1.4		1.1	-								÷.,									l
2105. AC+HQ008817Phylioscopus magnirostru			- <b>X</b>			¥.,				1.1	1					1	1.1		1.4		1.1	÷.		1.1						-		6.4	1.						L
2106. AC-HQRIBBERPhyllescepus regularities	- ·				1.	Χ.		181	۰.	6.4	- 61				1.6	G	1.1		1.0	8.	64	1			14	2						16	10				1.14		I
9/107. AC-GQ403975(douna caligata						х.,				2.5	÷					а.	1.5				16	÷										15	÷				1.1		I
¥108. AC-63453177(Iduna nena			. <b>X</b>			У.							÷.,			а.	÷ .			÷.,	1.	1			14							1.4	1						U
9/108. AC-KASSUN79-Hypoteic languida			. N			Υ.					÷.					ά.	1.1				6	÷.										1.1	÷.						I
2110. AC-GQ481267 Acrosophatus melanopogon			. 8			х.,		1.0													11											0.4							I
92.111. AC-GUS7LELIJAconceptutus agriculta			- N			×						1																											I
112 AC-OISILI2(Acrosphilus concinent		10	- N	1.1		Χ.		10				1	1.1		1.0		1.1		140		1.1	10	1.1	1.1	14					1		100	10		-		100		I
₹113 AC-AB993942[Antrophetia dumetorum						х.,																																	I
2114. AC-GQ4ELIB3Azrocephatus scripaceus			. N			х.		1.2	10	1.1				1.1		а.	1.14		1.4		1.1	1		1.1					1	8.5		1.1	÷.						I
92135-AC-FRBR7228(Acrocophilus arandiraceus			- 8			Χ.		1.00											1.00																				I
9213E. AC-CREDEST(Acrocophalue stantonum			. <b>X</b>			х.					÷	41			1.4	-	1.5					÷	÷.,		1.	έ.			14				÷	4.					L
SELLT. AC-199570233Megaharus polustris																ά.	1.14				1.1	1										1.4	1						I
2118. AC-00371953 percentella manvie						Υ.		14		1.1	÷					а.	1.5		147		14	÷		0.4						•		64	÷						I
W118. AC-HQ0088M/Prints changers											÷					λ.	1.1				1	÷.										10	÷.						l
V 120. AC-85/722450(Prime grazile						Υ.							÷.,		1.	-	1.1					-						1.				1	-						ł
2121, AC-HQ8588EIP-one floorventils																												6.5		-									I
9:122. AC-KT240052/Printe instmate					1.1					2.4	1					λ.	1.14	1		έ.	1.1	1						κ.			÷.,	1.1	11						l
#123.AC-IQUINIZITyAra xana		1										1			14	Ξ.							40			γ.								10					I
97138. AC-GUB72123 fly/rin reserve								1		1.1	÷.		23		1		1.1		140		1	10	10		14					1		1	10				1.1		I
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Land 100 100 mm box and contract				-					-	100	515	_																											

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914. AC-40772807/Engleshytes traginstytes					L											
#15. AC-EUSTERER/Orcha ondus																
# 06. AC-6Q482380(Circlus pallas)	t	1												<mark>.</mark>		
9 st. AC-#####7Pycranetus cafer																
€96. AC-KX5200580Pycnetretue jocenue						- <b>A</b>							1.1.1			
999. AC-GQ482999 Regulus regulus																
@100. AC-8Q481547(Cattia catti						. <b>A</b>		1.0			м					
¥ 101. AC-08572031 Phylioscopus huma										1.1.1		1.0				
9 102 AC-MK380400Phyllescepus privative	1.4.4			1				1.11		1.4.4		1.1	1000	<mark>.</mark>		- 111
¥ 103. AC-KUR707983PhyReocopus collybra																- 111
2104. AC-6Q480462 Phylinecepus trachilaidee			(altistation)	a state	M.			6.00		6.4.6						÷ 1
¥105 AC-HQ008877PhyResceput magnirostre										6.4.4		1.1		1 A .		
≥ 106. AC-HQRIBBES(Phyllescepus regulation	+ + +									4.4.14		1.00	10.10			- 11
#107. AC-GQ681975(Iduna caligata						- 8		1.0.0		1.1.1		1.1		100		- 148
#106. AC-8.453177[Iduna nema				1.4.10.00		- <b>A</b>		1.16		1.1.1		1.1.1	1. 1. 1			- 178
9.109. AC-KX53187(Hggotes languida			10000			. <u>A</u>			1.1.1							- 108
✓110. AC-GQ481367(Acrosophetia meteropoper				1.0.00		- 8				1. 1. 1		10.0	1.00	( <b>.</b>		- 111
9.111. AC-60571.012jAcrocephalus agricola		1.1.1.1.1.1	1			- <b>R</b>				1.1.1		10.0				•
9/112 AC-KH53132[Arreceptulus renciment	(4) 4 (4)	1.1.1.1.1.1.1	10.000	10.000		- <b>X</b>	0.000	1.10.11	1.1.1	1.11.1		0.00				•
¥113 AC-AB993942[Acrocg/hillis durentorum		Averal a bis	- ar a la ar a			- A.		1.11		1.1.1		1.4.1				
2134. AC-DQRIDB3Acrosphilus scipacaus	1.1.1.1.1.1		1.2.2.2.2	1.5.1.1.1		- <b>X</b>		1.11		1.1.1		1.1.1		1.1		- 111
¥135 AC-FRBR7228[Acrocyphane arundinactus			delle delle -			- <b>X</b>								<b>.</b>	1	-
2136. AC-KAS3157(Acrocaphalus startoreus				1.0.0		- 8		1.0		1.1.1		1.0	4.00	<mark>-</mark>		-
W117. AC-IP9570239Megaturus polustris	<ul> <li>(a) (a)</li> </ul>						1.1.1.1			4.4.4		1.1				•
2138. AC-003712833.ecuatelle naevie						- 8		1.1.1		1.1.1		1.1.1	1.00			
X118. AC-HQ008884Prints compete						- *				1.1.1		1.1				•
2 120. AC-85/722459(Prime gracele				1.1.1.1.1.1.1.1.1		- 8		1.16		1.1.2				<b>-</b>		-
P.121, AC-HQMI00EIPrints floorventris			1.000			- A	1.11.11.11		1.1.1							- 11
9122. AC-KT340032/Prine institute				1.1.1.1		- <b>N</b>		0.000		1.1.1		1.1.1	1. 1. 1	( n <mark>n</mark>		•
W123. AC-IQ1903225pAtemane		8.0.0.4.1.1								1.1.1						
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f st. AC-IFEMMSTPycranetia citer																																24			н
98. AC-KKS2058(Pychetretus jocenus				- 1														4.0						-											U
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f 100. AC-8Q481547(Cartia cetti		-																1.1										14		1				1.1	П
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CIII. AC-6057LELIJAcrocephatus agricela																										1				1					Н
(112 AC-KHSILI2(Armorphilus concinents																		14										1	10			1		1.1	П
113 AC-ABRODAÇÃopogitalia dumitorum																										1					40	2.4			Ш
E114. AC-GQ4ELIEI(Acrosophulus selepanas																								2.5							14.1		141		Ш
115 AC-FRBK7228(Acrocophilus arundinaceus																														÷.		24			П
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123 AC-IQUINUZEItyAria xana																			. T				1.							1					П
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12120. AC-148	0690313Laticilia hurranii	11			¥.	•						•	• • •			1							1		÷.)	.,													1.	1	
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9136.442-60	#8227/8(Majodicapa sibnica																							Ξ.																	
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9418 AC-60	#82256/Muscicape devunce																																4.5						1		
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2141.AC-IN	08845)Copsyshus mulabariste										1							ς.,					1	5	2.1										1	- 20			1		1
94142 AC-H2	(NRS2T) Cyninnia rubecolaides													ι.													1.								24						
141 AC-101	(75559)Néltava sundara		1		x.		÷.,	. <b>y</b>										2.4	1.5											. )	£.,							1		1	
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9145.AC-IQ	(75290)Lascinia magarhynches											10		ι.				1.4						Ξ.											1					Ξ.	
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¥94.4C-40	772837(Exceptoritytes transferdytes			-		1	1.1															4.9				• •				-							- 1
195 AC-61	571819/Ondus ondus																										1	1						1.1	1.1		- 1
996. AC-50	MEESRO(Cenchus parlană						111	2.								10			12		÷.,				11			1		1.	1				1.1		- 11
R17.AC-84	00017Pyceantha.celle																																				-11
¥96.AC-R0	S2058Pycmmetue promot	1.1				6	2.4		141								1.1					G		1.4	11		1.5			1				8.9	1.54		-11
¥98.4C-60	RE2000 Republic regulari																					1															-11
¥100. AC-0	Q481547(Cattia catti					2	13															÷.,							12		ς.			17			- 11
¥101.AC-0	US72033, Phyllicscopus humei					1			141					1.14															÷.)	18				21	0.00		- 11
STILL AC-M	KOSO4903Phylitexceptus prisetelus	1.1				1	13									2.1		1.4	1.	10					÷.,		1.1	10		1			100		1.16		-11
9303 AC-0	ACTOTIVE Phylicocopies collybrid					12											2.4					14.14											(4)		1.10		- 11
£104. AC-0	Q462461;PhyRescepus trachileides														1.		۰.,			- )						ι.			÷		۰.,					4.1	- 11
¥305.4CH	Q808867/Phylloscopus magnitutititi					1	20																				1					• •			1.1	40	- 11
12106. AC-H	Q63865Phyllinecapus regulation					1	1							ω.													24	۰.									- 18
#107.AC-6	Q48397508una coligata																					S. 1															-14
118 AC-0	NSIS77(Iduna rama	1.0				14	2.5							Ξ.				2.5	14							-	84	14.1				÷., 4	140	404	1.11		- 11
€109.4040	NS2067()-Hyperials Tanguista																														90	1.5		59	0.00	3.1	- 10
9111.AC-6	Q481367(Acroceptulus meteropogon			Ξ.	11	1	5.5		1.		2			1		1						4.1		1.1	1.					1.4	4				1.1		-11
¥111.4€-6	0371212(Acrocophatus agricola					1																				1.1	1.1							1.1	1.10		-11
¥112.AC-0	NS2EE(Actocaphatus cancinaria					1	24										1.5					1.1								14				59	0.90		- 11
9113 AC-A	000042jáceoghelus dumetorum																																	. 1	1.10		- 11
9114.AC-0	Q48L383jAurocephelas scirpereux		4.14					1.4				ц.				λ.		1.					λ.				14	÷.,				2.5					-81
£115.4C-H	R\$7228(Acrosshinus arundinaceus					а.						н.,										14.1			4	-	1.14		+ -	÷.	-	6.6	1.0	+	1.1	4.1	- 11
¥116 AC-R	MSSIST(Acrocaphalus stantoneus			- 1							4.			÷.,-			ι.,													14			1		1.14		- 11
WITT WOR	9570239Megalurus palustris					1					w											5.0															- 11
VIII.AC-D	US71915 (Locustella Harvia	1.40					1.1							÷.,			- 1	1	16								24					6.5			1.1		-11
¥118.AC-H	Q008004(Phinis crinigera					1																					1			1.6		1.1		* . *	1.16	-	- 11
¥100.AC-0	2722450(Prints granitie		1.1			1	1.5		1.						÷.,				14						1	4.1	1.					6.5	1.0		1.1		- 11
₹18-AC-H	Q108883/Princia flavis-entris					1			141																			+				1.5			1.1		-11
£122.AC-K	1340052/Printe internatie					14	65											1	1				÷.,			•	1.1				4		100	• •	1.10		-11
¥123 AC-10	20782225yAvia Hana																									10							(*)	1.14	0.00	1.1	- 11
PER ACC	US72L235/Jvia missonia		1.4			2	18			- 14					24	1	1.5					Se . 1		1.4	14.1		1			10					1.10		13
A.																		12	_	_	_	10.		_	_												6
Seut .	251 711 752 752 753 (251, 130)	1.0	rable:	17/2	10				. 21	15 tane		lef.																									

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¥15 AC-0	US7164126-Avia pressionetris																															1	1			2.2		1
118. AC-H	017612115ahia motaras	Ε.								11																		÷.,		1.								
¥177.AC-0	ASTZI 2015-Avia community																					÷.							1	1.	÷.,		140		1.	2.5		ŝ
WITH ACH	CC75950Permitertainus andthrogamus	12					1		12							2		10								2.2		2.1		1.					1.1		1.	
RIBACH	#00901EE.aticila trunesà																					2										1	120			2.1	121	
F18.AC-R	Q12070700 Pulliameum ruficeps					20				÷.,						20						÷.					1					1.	1.				1.	ŝ
WILL AC IN	Compositive and company																														1.1	1.4			1.		1.4	1
VIE ACA	#C055517(Argue umfai earthri																										1	1			1	1	12			1.1	1	
¥10.404	CR090A1/Turdoxfes malcolmi																										1				• •	1	1		14		1.	ŝ
FINACA	e-O63803/Trochalopteron arythrocephalum urandi								12							2												- 1			ι.	1.4	1.			4.4	1.4.	5
215 AC-E	U425679-Helenufietia capistrata supricego																											10		-	1	1	1.2		1.	-	-	ŝ
VIN AC-0	Q4022260Auscicape obsiste																																				1.	.,
WILLIAC-B	4910583_events lutes																																				14	ŝ
¥18.AC-0	Q482256(Massoirage desseries	12																				÷.,						2		1.21					1.2		1	
¥139.AC-0	R5729879Mutckose strints																																		1.0	1.1	1.	ç
WHEACA	#SECON Cercolization gelectories																					1						2.				ι.						÷
¥10.AC-8	F4989439Copporthus multibaricus																																				1	÷
¥142 AC-0	QC746271Cysemia nuberruktides															2.						1								1.		1	1.		1.2		1	5
¥143.AC-R	Q075559814 Rave sundare																													5.61	1.1	1.4	140		1.0	1.1	1.4	5
1414 AC-8	F432345 PAuxing a Shalatsina																					2						1		1.0			1		1.		5.4	ŝ
₩145.AC-R	0075293Lucchia megarhynches																														÷.,		1.0					ŝ
VINE AC-R	CR6641(Luncinia syncica					1										2						1					-				-	- 4	1.2		247	1.1	1.	ŝ
¥147.4C-8	UNITYTABICatiope pectoralis																																					,
VIAL AC-D	Q482758(Tansiger cyanunus					6.										6.		1		0.		÷.				2.2												ì
MIN ACH	Q176404(Tarsiger chrystateus																											1.				1.1	1.			1.14	4	
¥150.AC-N	Q0748466Ficedula strephate																					1					1	-				÷.,			1.0	1.1	1.	÷
¥191.AC-6	Q40100 Foedula albicilia																																				-	5
9192.80-0	AU21801Firmfule perve															2						2			2		2										-	ŝ
¥153.AC-0	070700 Phoenicurus hontails									Υ.																						14						ì
¥154.AC-0	Q462362[Photemistanas erythmenotius																					÷.,																
¥135 AC-0	0572028Phoenicurus phoenicurus																												1.6	1.01		1			10		1.4	1
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¥125. AC-5857164456hia crassimutria																			11										4					!
#126. AC-IQ076023[5ykia mytteces																		2.4																
9/127. AC-GUIT212056/via commune					2			9		1								2.1	1							2			÷.		100			1.1
¥13.AC-IQ07963(PometarNess enthrogens)																																		1.1
2 129. AC-MI0690313 aticilis burnesi					10					1																			÷.					1 1
9130. AC-IQ05707/Pellumeum ruficept																																		
9/131. AC-IQI73857[Akippe providenthala																													2					
SE132, AC-M4-Q55817(JArgy/a earlei earlie)			-																															0.11
SE130. AC-8CR00041[Turdoides malcolms	1.1				1	£.,			1.1																			1.	1	1.14			140	1.1
9134. AC-MH003800/Trochalopterion erythrocephalum woods					1																								ά.					2.2
2135. AC-EU4405/07/Hetwoophacie capothota trigricage								ц.																										
W136. AC-GQ482238[Muscleaps sterics																																		1.2
137. AC-IF4888683.eathin luter					1						Q. 1		ц.		1.					÷.,					1.					1.1				
2138. AC-GORDISHIMASOcapa devantes																																		
9130. AC-GUS719879Autocoups strute	1.0			- 7	2			а.	1	1		÷.,			1.1	÷.,				۰.	÷.,				1	1			÷.	1.	14.7		1.0	
@140.AC-MP380390[Cescotriches gelectutes																																		1.1
2141. AC-IF488H5Copychus malabarisus			4			2.5	1.4		1.		14				14	1				14			1.		1.			1	4				141	4 1
2142 AC-IQI74020Cysema rubecultiktes								ч.																										1.1
₩ 143. AC-3Q173330[Nifte/a numbers	1.5				1			а.		1		2.				23					1	24							ά.	1.		24		1.1
97344. AC-EH422243 Muscicoga thatissing																																		1.11
9/145. AC-JQ0752800 sectivia magarhyriches	1.1					1.1.	1.4		ί.		1.1		 х.		1.1					1	- 1	1.1	14			- 1		14	4		1.		14.1	1.1
9346 AC-4C78960 Luccinia svecica																																		1.11
92147. AC-80873748(Catlicys pectoralis								9			-		 ч.										-					-	۰.	1.1.				
W148. AC-6Q482758(Tastiger cyanuna)																																		1.1
#149. AC-JQIN608 Tansiger chrysseus					10					1																		÷.,		1.1				
3150 AC-IQ01884(Ficedula mophiata								ч.																										1.1
9/15L AC-GQ480801/Firedule alteritie	12.3				2	÷.,			1.4	÷	20									1					14			1.5	2	2.4			127	1.2
97152 AC-60570803Ficedulo pava					10																						2.5							
2153. AC-0400000(Phearieura frentale						÷.,					1				1.0					1.			1.1					14					14.7	
9354. AC-6Q48283Phoenicurus erythranobal								ч.																					÷.					
¥155. AC-00572028/Phoenicurus phoenicurus	1.5			4	1		1		1.		41					2.						24			3.4			1	4	1.4			140	1.1
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918.AC-68	(D2044)Sylvia craminuttia															12					-					 1					-								1	L
¥138. AC-H2	1763U3(5yAria mystacea																																						1	1
WIT AC BU	\$72120 Ephvie sommeries			1.	1.		τ.			1.											-		1																. 1	
9138 AC-IQ	(P9853)Pomatorhinus erythrogenys									1.																														
12125. AC-10	0600111.atella hummó									1													2.										۰.						- 1	
¥130-AC-IQ	DSID0/Helieneum ruficeps																																						- 1	
¥111.ACJQ	173957[Alcippia genoicaghala																						1										-				1.0		- 1	
94332 AC-M	Q55M7/J/vgya exteri exitei																						14																	
VIII ACHO	430941/Tursloidex mailcolms			19	1			1.								38							1	40			10	2					-	14	2		÷.,			
WITH AC-M	QSSIQ0[Tricchalopheron arythrocephalum woodi																		A																				-	
¥135.AC-80	60367Pfaturephasia capistosta nigricape			1.4						14											÷.,		1								÷.,		1						-	
£136.AC-60	462229(Muscicape ubinica																						1	÷.,									1.4							
2117.AC-194	OSBUD, aighteis future					1	2			12	-				22						2.1	а,	24				14.1				1		1						- 1	
¥18.AC-00	W62236(Muscicapa dauarica						ι.	14															1			1.4	10													
¥1第.4C-目1	S71987 Muncicapa etriata						2																1	12				÷.,					14							
97.140 AC-58	SIG291/Cercitriches galactotes																																						- 1	
₹141.AC-IN	RB45(Copsychus malabaricse							15															1										1				÷.,		- 1	
9142.40-10	174827[Cynmic rubeculoides									1																														ų,
SELVER ACTOR	175550(Néltavia natofiate	8.0								1				-		2							1	1			140						1				1.0		- 1	1
9344, AC-ER	Q224D (Music Kiegta Welessine																						1.4																	
¥145.AC-10	CPS2R9Esacinia maganlynches					1		23		1.1						1							1			1	Χ.							10			÷.,			
9346-34546	789741jLutcinia svetica						÷.,			1.0																													- 1	
92147. AC KU	073740(Callingue producedos							2.5								4							1					1.					1				4		- 1	
SCHE AC-60	AB2758[Tartiger cyanurus					÷.	2																1										1				÷.,		- 1	
9148, AC-10	(76404) Tarsigar chrynweus						Ξ.	1.5															1				10						1		1					
9150.40-10	ININGFICATURE straphists																						1	1																
¥151.AC-60	ASSERS/Fundula albicitie			1.4			2	1.1								-							1	÷				2.5					1						- 1	
¥152, AC-60	571881Ficedula parva																																						- 1	
9/153 AC-D0	R0700(Phoanicurus frontalia			1.4		1	÷.,				1.												1	÷		1							1	140					- 1	
¥154.AC-60	452363Phoenicurus aydhishotus					1	1																																	
¥155, AC-60	572036/Phoenicurus phoenicurus	1.		24				1.1		1		1		-					A				1	10			10						1							ŝ
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9156 AC-6082376/Phoenicuns extringe	Brus .						. +						+ 1							×													1
₹157. AC-6Q482171(Mentionia caudilie		н.								-										¥.													1
94158-AC-IQU754158Monticola solitarius		н.		ы.						4										¥.						1.							11
92158. AC-GQ60628[anicola maseus			÷ -								5.5	1.00	÷.,					1.1		×									1.0	1.1.1			11
¥160 AC-IO/R0805evicite capitate		18						2.4			1.1	1.00	÷ .							×.													11
#181. AC JQS78182[Eastering formus				а.		4.1	-			4			÷							×.		1.							12				11
¥162.AC-DQ003479(Desarthe altoniger		18						1.14				1.		1.		1		1.00															11
163. AC-GUI72004(Cenanthe senanthe		14									1.1									×.						12	1.1	÷ .					11
#164, AC-HMB408703Denanthe lugens						1.14					4.14	1.41	1.14	1.4	2.1			1473	1.1	×													.11
of 185. AC-MF705487[Danarative Smithi		ю						a				1.				÷.,	÷.,	1.4		- 41		÷	1			1.1	10	. 2	1	1.1			11
2166 AC-GUS71995(Denanthe preschanica		ь.	÷																	×.													11
€ 167. AC-DC55540(Cananiha santhoprymes		ю		а.			+	- 14 C	ι.	-	1.		+ -							*													11
94368. AC-4P252239Oenanthe desets		E.									1.1	100	•							×													11
#168. AC-IF408802/Cananihe isabellina		Ŀ.		а.					۰.	4										w,		÷.,							1				11
STID AC-090300022000ee douma		н.		ы.						4				1.4						×.									1.1				11
171. AC-5Q482883 Tardur viscovina											1.1	1.00	۰.,							×									100	114			40
\$7172 AC-66072145/Turdus Haron		ю		е.					1					1.4																			11
@175.AC-MG62697/Tunitus menute							. +	4.44					1.1	1.					а.,	Χ.													11
9717K AC-6Q463870(Turitus rufficalitis		ю	• •					÷					•							х.									1				41
#175. AC-6CK00008/Sturnue combra			A. A.	а.			1.	Sec. 8.			4.14	14	1.14	1.1		100		14.14	1.1	4									12	1.1			11
¥376.AC-E0525542(Sturnut prepodarum		×.	t #	1	1 8.	W L	1.8	st.	N H	κ	Dİ	G	t.							×.							1		1				-11
#172 AC-IQ/TERIStamic malabaricus		ь.	1.1		1				2.2		4.4	1.	÷							×.							10		÷				18
118. AC-AVM/EIR(Acidotheres tratis		8		н.																×.													11
2170. AC-EF484196pActidembaries function		10	T F	10	6.8	W.S	1	1.7	N H	κ.	D 1	6	Ŧ	1.	ι.					×													14
9.185. AC+EA42637(Dicasum erythronitynch)	16	ю	÷.÷.	н.					-				τ.,							٠										1.1			11
9/181. AC-MH520085[Authopyge signinge sig	araja:		• •	н.		1.0		÷	•				8.4							×.								114		1.04			11
✓382 AC-ABRADITEPrunella cellaria		ы	• •					÷					+ 4		÷ .					х													11
2183. AC-DQ482565(Prunella himulayana				н.					÷.				- 7	1.	τ.														÷.,				41
V184. AC-6Q482568Prunets fulvescens		ы	• •						•				* .							×.													11
92185. AC-6Q480560(Prunelle alregularie			• •										• •							Χ.							1.0						41
97386 AC IPRIMI25/Metacille crieres		E.							-		÷	1.00	+							Υ.													11
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¥156 AC-SQREPTIPhoencurs extringethin	· · · · · · · · · · · ·		
#157. AC-GG462571(Monticole seostile	Y Y		
2158. AC-10275425(Montrode colities)	<mark>X</mark> X		
19 158. AC-GQ4826285excets masays	<b>X X</b>	· · · · · · · · · · · · · · · · · · ·	
€ 100. AC -PQURUNESexicula caprate	X X	· · · · · · · · · · · · · · · · · · ·	
92161. AC-JQDRIB2/Seriosta famesa	a a a X a a a X	· · · · · · · · · · · · · · · · · · ·	
¥162 AC-DQ80079(Devanthe altoriger	Y.	· · · · · · · · · · · · · · · · · · ·	
¥303. AC-60370994(Denanthy conanthe	A A A Y A A A Y		
9/164. AC-HM40408209Clenanthe kugens	a state a state X		
# 165. AC-MP705487[Canantha fenchi	X		
€ 105 AC-01/571/995(Cenanthe plescharka	A A A X A A Y		1 4 4 4
9/167. AC-DQSS040 Curranthe santhopsymma			
#388 AC-KP232229(Cenantifie desets	<b>V V</b>		
¥ 360. AC-3F408002(Conumbia autorities	a a Y a a y		
2170. AC-4P305862320cthera dauma	<b>- -</b> - <b>-</b>	· · · · · · · · · · · · · · · · · · ·	
2171 AC-GQ482001 Famlus viscoverus	Y		
₹112.AC-68512543/Funder illecor	a sis a sis X		
2171. AC-MK262887/Fundua menula			
211LAC-6Q60370Fanka nAcolis			
2175. AC-KCK00008[Stumue centra	and a Marca X		· · · · ·
9/376. AC-80525342(blumu) pogodarum	a ana 🖲 ana 🖲	a la canala a diala a ka a dia ka a dia ka ana a a <mark>k</mark> a ka a ka a ka a <mark>k</mark> a	A . A . A . A
9/177. AC-IQ376301/Sturnia malabaricus	<b>X X</b>		X
€ 176. 4C-AV000199(Acidothees tridtis	a state water a water	· · · · · · · · · · · · · · · · · · ·	A & A & B
2 178. AC-EF46410EJAcridotheres functus	<mark>V</mark> V		
¥380 AC-048250[Dkaeuto etytheshynches	and a March 1 M		1.1.1.1.1.1.1.1
₩181. AC-584829005\$Aathopyga uparaja uparaja		· · · · · · · · · · · · · · · · · · ·	
9/382. AC-ABRADINEProvello collinis	a an 🕺 a air a 🗴	· · · · · · · · · · · · · · · · · · ·	A 4. 4 4
9/103. AC-GQ482565(Prunelle himalayana	and a Xee a second		A . A . A . A
¥184, AC-6Q48256)(Prunella fulvesceri)	a an <mark>X</mark> a a A X		
9/185. AC-0Q682560(Inunetia atropularie	<mark>Y</mark>	· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
¥106. AC-0957025(Motocilla cinerea	A A A X A A A X	· · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 K
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2156 AC-SQ482376(Proencurs ey/hotgestrus														4																		1
2157. AC-GQ462371/Montecele securitie														н.																		1
# 156. AC-100754259Apropula salitation																																1
#158. AC-00405235anirate measure																											2.					1
2160. AC-IQUINURO(Savicsia caprata																																L
2 161. AC-/Q0763B325accosia fermus				2.1																												1
162 AC-D080479Devantive alborright																																1
2163: AC-GUS71004)Canantha senantha						1.1																										1
2364. AC-H#46488703Denanthe lugens																																ł
# 165. AC-M#7954E7(Ownersthe Snochil																																1
K108. AC-GU071995(Desanthe pleachanka																																1
2167. AC-DQSS040(Oananthe santhopsymme					1.4																											ł
2 188. AC-KR252229(Oenanthe desets)																																L
2100. AC-IF408002)Cementhe isobelline						121																					1.0					ł
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2171. AC-0Q482883(Tursha visciostrus				14	12.2		1.4												1						14.1			2.5				1
2172 AC-60372340(Fundus Recut																																L
2171: AC-MICIS2007/Tunkus menule																												2.5				÷
2116 AC-SQ462870E1undva n.Acadila																																ł
2175. AC-KCK0000858umus centra		1.1		2.4	41.4	14.1	2345								1.14						14				5a.)	6.	1.4				4. 4	I.
216 AC-E0525542(Rumut pagedarum				1.14																												I
2177. AC-IQDESQStumux melabaricus											-																		1.			н
2178 AC-AV66039(Anidotheies Vistis																											1.					II.
2 179. AC-EF464E96(Acidetheres functes					1.14									ы.		4.1							н.								+ +	J.
2380. AC-KRA282702 kgeum erythronlynchos																											1.0					I
# 181. AC-AD-028095(Authopyge signings signings					10.14	1.			10	- 14							1.4	1.1	14			- 6				ε.	1.0				÷ .	L
2382 AC-ABH/0002Pruvelle cellaris																									14.1							1
2103. AC-6Q482569Prunelle temelayate				4.4															14.7		14				14							1
23M. AC-SQR0563/Prunets fulliescens																																L
2185. AC-GQR0560(Provelle atrogulavie					1.1												1.					1.14					1.0	1.1			4.4	L
K186. AC-IP95N023#Actocits cinema														*																		J
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Aug 151 451,452,453 (153,738)	. Te	inter 2	1/300				235 14	or take	inter																							

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¥156 AC-0	Q48237N/Phoencurus exthingestrus																																				
1117. AC-0	Q462171(Monticols coutilie										2																										
¥158.AC-8	COTHEN Monthcole colities																																				
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¥104.4C-F	AVELAGE 703Clenarithe Augeno																																				
97165. A.C. N	#795487(Cenantha firschi												1.						÷.,		2					11	1	1							4		12
£106.4C-0	10371393jOenanthe plescharika									1																											
9167. AC-D	(255040) Ownantifie sandhopsymma																																	1			
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14 100, AC-1	F408802/Cananthe asbettine												1.					1.1	÷.,				2.2				1							1.			
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¥111.AC-0	Q482000[Turdus viscovous					2			а.	2.4			1.			1		1.4	ч.								1.2										
#112 AC-0	R0572145(Fundus Hiscus									24																											
HITLAC A	W363687(Turdus menute					12				24	÷								÷.,	1							1.										
×174.AC-0	EQ482870E7 undus nufricolitis																																				
1215 AC-6	CK00038[Blumia contra				μ.	1			2.	1	12		2.	1		10			÷.,				÷.,								- 2	-	2.4	1.		1.1	
RITE ACE	0525542[Stumus pogodarum																																				
WITT AC-1	Q376383(Stumus malabaricus	1.1	11.01	1.1		-	1.1.4		ц.	1.	4	1.14	1.2					1.2	20		4		1.	1.2	4		1.			274				14	4.7		1.
¥18 AC-4	VM6096Acidathees trists									1																											
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¥182.4C-4	UB433312[Prunella coltaitz																																				
92111.AC-0	Q682565[Provaille himalayana			1.14		1		1.4		1.4	16		18		1	1		1.4					0				1.0	÷.					2.4	141		2.2	
194384, AC-0	Q482563(Frundia full-respen)									1.1															Υ.												
92185 AC-0	Q602560(Frunklik atropatiens					5				6	6	÷.,	1.1		6.2	1					4	2.1				-0	1.		÷.,	14				1.		1.1	
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9156 AC-0	082378/Phoenicunas en/frongestrus																																					۱
₹157.×C-0	Q482171;Montoola saudille																																					í
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¥19.XC-0	Q6608238 Earliestia masava															6		23										1.5	Ξ.									
¥100.AC-H	207603605avicaria capitata																										14	1.								÷.,	1.10	
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9-162 AC-0	Q663479(Decarthe alboniger																																				1.	
9163. AC-0	US71004(Canantha sumantha				8.9	÷.,														1					147							1.14					1.74	
¥104. AC-6	N45458703Deventhe Nagens																										1.	1.61	2.1	1.1		1.14			1.	1	1.14	
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105 AC-0	US71995(Denaithe pleschanka																								1.													
¥167. AC-0	Q55540EOenantha santhoprymma																											-					-					
9-168 AC-6	N252229(Devanthe deset)																										1.54			1.00				4.74	140			
¥160. AC-18	408802)Cenanithe isabetime																								1												1.10	
918.404	P10380212oothee dawne															2.													11								1.14	
171.AC-6	Q4828838 Turdus visciverus																22	1					ч.					1	12.					÷.,		12.5		
9172 AC-8	6072140(Turdus Hecus																												- 0								1.1	
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@175.AC-6	CK300306(Sturman combine															10		10			1.							1	1.				1		14.	40	1.14	
9138 AC-E	USIS542(Sturnus pagodarum																							1			1.1		- 1	1.1	5						2.14	
¥177.AC-II	(CREDIStance malabaricus							1.0															ц.								-	1.1.4	÷.,			-		
¥118.4C-4	VM/399Acridutheres tratis																													1.			10				1.1	
12170.AC-8	F484106jAcridethanes fuscue																								-		6			1.40			-		-		1.1	
¥185.AC-6	#42507(Dicaeum-erythnerhynches																												1.1			+				1		
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¥182.4C-0	BRATERSProvelle celleris																											1									1.1	
183. AC-0	Q482565(Prunalla himulayana					ε.																												÷.,			1.1	
¥114. AC-0	GRIDER Puneto fulvesceni																																10				1. 1	
€185.AC-0	Q402560(Prunella atrogularie																1.										0.	1.0			1		÷					
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¥114. AC-00	Q482580/Prunette fulvescienci						1. 1. 1. 1. 1. 1.	1 1 4 4 4 4 4
€185.AC-01	Q402560;Phanelle atrogularie							
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HIT.AC-GI	671941 Mittacilla Rava		a ta ta ana sa		· · · · ·			
#188. AC-60	Q4800010Meterille obrasile				V			
-108 AC-KY	75450484stacilla atta				· · · · ·			
2100 AC-00	Q481343(Anthus getlevaliti							
₹101. AC-10	12523879Arstwa campiestria				· · V. · ·			
¥192. AC-01	UC/C7320Anthus proteinin				Y			
£193.AC-60	Q461349(Anthus budgeoni				a a Weat a			
₹104. AC-01	US7L250 Anthur catvinue		6T		V	22.20		
×195. AC-60	Q483365(Anthus spinicktta				X			
2106 AC-00	Q481358(Anthus rubescens				X			
2197. AC-IH	1571754@ombycilla ganului				· · · · ·			
2198. AC-80	21219694ypocolius arrgalmus		K D I G T		A			
118 AC-M	K262511 Fringila codebc				V			
200. AC-61	(575454) <sup>4</sup> singitis monthingita		LEIHKDIGT.		Y			
200. AC-01	/570829/Coccutivauties coccutivauties				· · · · ·			
200 AC-60	Q483529(Carpeniamae nationilla				V			
288 AC-10	847705 Carpodacus thura	VTFVNEWLF	STNHKDIGT		V			
# 204. AC-00	ALNOUL remoprahia mongolica				Y			
7.005 AC-00	Q452153)Leucasticle nemonicala				V			
# 206. AC-00	ORIGORIA automaticate Incendel				X			
A JUT. AC-FN	ALL 251 Phodousica obusileta							
238. AC-60	Q481479(Linaria file-irontrix				V	5		
238.44-60	G451455(Leonia canvabina				Y			
210. AC-61	D12588.ess curvicentes				X			
7211.AC-M	C952049(Carduetic carduetia				· · · ·			
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213.AC-60	Self-1495(Spinus spinus)							
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216. AC-01	1071807 Employing salarship				1 . V			
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9187. AC-GIO71985 Mittacilla Rava			. <u>v</u>			Χ.																														1
≥ 188. AC-6Q48220[]Marterille ritronle			. N		1	Υ.																					1									1
92188. AC-KY754508/Motacille albox			. N			Υ.		241																												
92100. AC-GQ6ED43(Anthus golflexelis)			. <u>N</u>									-			1.		1					12					1							1.1	1.1	
¥191. AC-07252387(Arthys campethis			. N																																	1
9/192. AC-01071732(Arthus protonics			. N		1	х.				2									1.1				4				1				14			- 1		
¥193.AC-GQ483349(Anthus hodgson)			. N			×																														4
92104. AC-02/071230 (Ambus catrinue			. N	÷.,		Χ.		121		÷	1			1.47		1				14	÷ 4			1	1.			1	÷.,		14.1		1	÷.,	1.1	-
¥195. AC-GQ483365(Anthus spinoletta			. N			Υ.																						1.00								
#105. AC-SQ482358(Anthus rubescens	- ,		. 8			Χ.		14				1	1		10			γ.,				1.4			1		14		17			24			2.6	
v2 197. AC-GUS71754(Rowdycilla gamalus)						Υ.		1.																												
₩108. AC-8725219694ypocolius ampalmus						Χ.																													20	- I
9 199 AC-MCR2111Finglia codebc			i y			٧																÷.,											1			1
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203. AC-60571829/Coccuthmentes coccethrautes			. N												γ.,								1				14									-
2202. AC-GQ481520(Carpenianus rubicita			. N		1					1	14	1				6	Ξ.					14					17					Ξ.				
203 AC-EURI770E)Carpediacos thore			. <u>N</u>																																	1
2204. AC-GQ462008[Enemoprature mongolice			. N			х.					1.00									1									÷.,		4	1.1		4.7		-
2.35. AC-6Q462153[Leucardiche nomoricola			. <u>N</u>			х.				1.1												1.									14	1.1				4
206. AC-GQ482049(Lascontricte Intendit			. <u>N</u>			х.				6.4								λ,		6					1.1						÷	1.1		÷.,		91
2017. AC-FAR53359Rhodogriza obusieta			. <u>N</u>			х.																														
208. AC-SQ481479[Lineria filestrontris			. <mark>N</mark>			Χ.,				4.4		1.1									- 1	÷			1				1.5			1. 1				4
2398. AC-GQ481455[Linaria cannabina			. <u>X</u>			Υ.																														
₹210. AC-GUS219583.esia-curvineatra			. <u>N</u>																													1.1				
92211 AC-MK282999/Carduelis carduelis			- N			٧,٠				6.4										1							1					1.1	х			1
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233. AC-6Q60405(Sprout sprout			. <u>N</u>							1.1										1							1.					1.1				1
234. AC-JQD74776[Emilterics malanocraphale			- N		1.	Χ.,																					1.				1					- 1
215 AC-ICR08113(Evidentics branders)			- <u>N</u>			х.																														
₹216. AC-GUS71367(Embarian calamitra			. <u>N</u>			×.				1.1										14	-				1						14.1					21
211. AC-IF4RERS/vdeus faces			. <u>X</u>			х.,																														
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9187 AC-60371818Adapte fava													A																1
VIIII. AC-00452300Metacille chranie													A																
W100 AC-69758508Metacilla alba												1	£																
9/100. AC-0Q401341(Anthus gridlemiti)													A																
€191. AC-09252367(Anthus competing													A																
2192 AC-6001712 (Arthus pretents										. 1					γ.				. W.										
¥193. AC+6Q681389£Anthus hedgeoni												6	<b>4</b>																-
@194. AC-GUS71250 Arthur centeur										. 6														1		1.1			
97195 AC-6Q4813656/retus spinoletta																													
2195. AC-GQ81158(Anthus rubescens				4.1			÷ .																						
97197. AC-60371734(BornbycRe gerulus													£											1					
198. AC-49252136Phypocolius empelmus												1.																	-
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9200. AC-GUS2LAS4 fringitia mentilimgitia		1.0														- 60								ч.	÷.,				- 11
₹30. AC-6057[#29]Coccuthmentes coccuthwardes																													
¥202. AC-6Q481520/Carpinheun rubiolla	1.1		1												1.1									6					- 11
9.28.4C-(080705)Capodocus thura				1.1																				1					- 11
9204. AC-6Q40508[Enmopratria mungelica	1.1																							80	1.1		-		-
9235 AC-6Q60353[Leucosiste nemoricale						1.												÷.											
206 AC-0Q602000 excenticte brendti				1.1					1.14					4.5 4.	2.1		11.		04.5	1.					4.16	2.0			
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206. AC-8Q481479(Linene Revision)		1.4.1					· .									- 47		-											-
9208 AC-EQ481455[Unaria cannabina																				1									-
9 210 AC-GUST1938 Loss curverstra						10.0		10								100	- 14						1.1			10	-		· 04
₹211. AC-MK282899/Carduelic carduelic				1.1												- 10									1.14				- 11
¥212. AC-GQ682639(Serinux punitus				4.1													- 14								1.1		- 1		- 14
213. AC-GQ404993pinus spinus				1																									- 11
9234. AC JQID4776[Emberica meterocogihela				4.1		1.0												1.1	1.6.9			1.	- 14						- 18
9 215 AC-KOOBEUERBeitz brancept				1.1																									- 11
226 AC-60371867(Evolution calendre				4.1		1.0										- 20								1					-
9207. AC-IH090308/Meta fucita		i.			- 14		-	1													•						-		
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9209 AC-6Q481455(Unaria cannabina		n an an an an an <mark>an</mark> an an an <mark>a an an an an an an an an an an an an an</mark>
210 AC-GUSTISMLous-curventus		• • • • • • • • • • • • • • • • • • •
211. AC-MR282989[Carduels: carduels:		· · · · · · · · · · · · · · · · · · ·
212 AC-GQ482629(Sarinus pusitus		
213 AC-6Q404995pinus spinus		
234 AC JQD4776Emberise meterocephele		* * * * * * * * * * * * * * * * * * *
225 AC-KCOBID/[Initiatiza branciga		a an an an an an <mark>an</mark> an an an an an an an an an an an an an
236 AC-G0371867Emberine calendre	1.1.1.1.1.1.1.1.1.1	<mark>.</mark> <mark>.</mark> . <mark>.</mark> . <b>.</b>
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W187_AC-GU371H38Astacile Reva	and the second se	e no e la ce <mark>lla e</mark> nera de la cella <mark>de</mark> eneral a la <mark>de eneral</mark> ése de la cella cella esta ese acella esta ese ac
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97.189. AC-8Y7545188404x08x atta	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
¥100. AC-GQ4813KI(Anthus grafierabii	acia aciacia a	<mark>.</mark>
92191, AC-09252567(Anthus competition	1.1.4.4.4	<mark>.</mark>
#192. AC-GUID1732 Anthus protensis		<mark>.</mark>
¥195 AC-6Q6EL988Anthus hodgomi		<mark>.</mark> <mark>.</mark>
@194. AC-GUSPL250 (Anthus carrierus		
W195. AC-6Q481385(Anthus spreaketta	1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	a ana ara <mark>a</mark> ana ang arawa <mark>a</mark> a ang ara <mark>ana a</mark> ang arawang ang ang arawang ang arawang ang
9/106. AC-GQ81208 Anthus rubescens		a na katalan da na katalan da na katalan na na katalah da na katalah na katalah da katalah da katalah da katal
97197. AC-60371754@ontycite genuius		
198. AC-49252198(Hyperatius ampalinus		<mark>.</mark> <mark>.</mark>
¥ 199. AC-MCRENT Finglis codets		<mark>.</mark> <mark>.</mark>
¥ 200. AC-GUS714048 vingilia mentihingilia		<mark>.</mark> <mark>.</mark>
₽ 203. AC-GUS75829/Coccothrauctes coccothe	under	
202 AC-GQ4ELS20(Carpendarius rubicitia		<mark>.</mark> <mark>.</mark>
9 28 AC-EUROVALComposition that		
9/204. AC-SQ4E2026(Enmoprishis monoclear		<mark>.</mark>
230. AC-GORATS/RLewcosticte remoncula		
# 206, AC-EQ0EXMBLaucontiete brandti		
2017. AC-F1815259/Rite-despite observes		
9/208. AC-SQ4814798Linene Revination		
#398 AC-60481855Linaria canvatiana		
210 AC-010712MEntia-conventor		
2311 AC-MICESSING and unter cardinalis		
9 212 AC-GORD/10/German monitor		
9211. AC-GORD4995pinut spinus	1.1.1.1.1	
97 214, AC-JQD4778Emiliarina malanovachala	100000	
9715 AC 400983 IEnterta Invecen	Distant and	
9/216. AC-GUIDUBEDEmbasius calendra		
WALK AC-INSTRUMENT DEveloping function	100000	
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201 7 901, 602, 603 (201/)	Tarrebox 37/230	233 tais relation

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9107.445-6	RISTERISA RACES THE R																																					-1
WINE AC-0	C482200Metacille cittarile																а.											100		22		12	12.				1	1
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¥100. AC-0	Q0011K1(Anthus gedlaeshii																			1.1		1		1.				- 22		1.1			1.1				1.	-1
9181.40-0	P253679Anthus competitus																											1.		1.		1	2.				1.	
¥192.AC-0	R/ID1702)Anthus protensis						2		2.2								с.	2.2				1						1.1		1.1	1	1					1	-1
¥195 AC-0	COLUMBANNIC hodgoni																																					-
19194, AC-0	REPLESS Anthus carvenue																ς.					1						1.1	1.2				2.1	12			1	-1
9195 AC-0	Q481360 dotthus spinistetta																																100				1	-1
916 AC-0	Q481256Arthus rubecom						1										η.	100		1.1		÷.			1		1	120				1	1.					
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¥196.AC4	92521363Hypocolius ampelinus																																		-			-
¥188.4C-8	#CH2521FringHa codets																													-				-				-
¥200.AC-0	US71454/Fringilia montifringilia			1	1.													1.1			٠.				1.	٠.	1.1	1.1		1.1	24		- 1	1.2			1.	-
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£304. AC-0	Q4E308(Enmopiatria mongolica			۰.												1						1.					1					1						-
9-305 AC-0	Q6N253Leucedicte nemoricale																																					-
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9.388-442-8	Q483455(Lineria cannabina								8								Ξ.	20				1	1				1	20				1	2.5				-	-
1218. AC-6	LISTING conversion			1.4		1.1	-		1.1							1.	2	1.1			1.1	1.		۰.	-		1	6.5		-								-
1211 AC-N	#202089(Carduelo carduelo																														. ,	1.1	* 1				1.1	-
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@313.AC-0	EQ8E1495(Spinus spinus																			1.0										1.								-1
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97215 AC-4	CK0803(Enteriza brancepa																÷.							α.								1					1.1	-1
12216 AC-0	10171367/Embarica calendra				1.	2				141							ά.	1.1				1					1	111	1.1					1.0				-1
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9 205 AC-GOBRIDS Inconfecte nemocicals					
206. AC-60482068Leasurationa Internality					
A 207, AC-F18132990Nedeusia observa					
206. AC-GORDE70/Lineria flavination					
7 308 AC-GORDENSLAvaria cannationa					
210 AC-GUPU204Leve-pervicetes				4	
233. AC-MR253999Carduets carduets					
212 AC-DOMENIONService multilate					
7113. AC-DOMERNISsinut spinus					
234 AC JCC/HTNEEmberge melanomethile					
2715 AC-RCRIMIT REPORTED INVOLUTION					
# 216. AC-60/01867/Emission talandra					
211. AC-IEBBILINEmberina fucata					
216 AC-SORETERING and and					
ZIB AC-000817908 minutes and inabia					
220 AC-42473036 milanta maranti					
271 AC-GOMITT2Hambesiza Inscore estudiot					
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224. AC-EPIES7INilleringing aurantia					
C175. AC-GUSTLET1Koberrs publis					
226. AC-0.040305Emberge extile					
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2 305 AC-50483708Less patiente mensionals																																				_	ï
9 206. AC-GO462949Laucosticts brandh			1		1.1	×.		22										٥.	242									2				10				1.5	1
9 207 AC-GRESTSHIP-odouptin-strokets			1			*																															Ш
208 AC-004834701Litaria Revisativa		0.	. v		3.0	Υ.				2.2																		22			0.6					12	н
209. AC-50604555Linaria cannatina						v.																															Ш
210 AC-60019998Less-convention			N		2.2					20					2																					15	Ш
9 211 AC-MO12996Carduels carduels						ν.																															Ш
9/212 AC GORDER Serieur punitus			. 1		2.2												1		1										2.2							22	Ш
97713. AC-GOMINESSENUE Spinus																																					Ш
#254. AC-JQ07477NjEvetierize malanzouphale						Υ.									1					1								1								14	н
9 ZIS AC-4CERUINEntienza bruncego																																					Ш
9/256. AC-GUD1967(Emberge talendre			. N			Υ.																															Ш
VIET AC-INVELIDENDERIE for Ma			. N			×																															н
# 218. AC-GQ481747(Emberga ca						×		1.2																												2.2	Ш
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9/201 AC-40407606Emberus steventi			. N			×.														1.			4					4								2.2	Ш
2222. AC-6Q401772[Emberica inscorphalos			. N			×																															Ш
@222. AC-MPS80075(Evidence stratistic						х.		2.							1.					12					1.			1								12	Ш
2.223 AC-005738748/http://doi.org/acharacture			. N			Υ.																															Ш
# 204. AC-4F9157/Millimberina suranite			. <b>X</b>			х.															2.5															22	Ш
9.225 AC-60370028 whereas public			. N			Υ.																															Ш
¥256. AC-6Q48189(Emberge ruble		11	. <u>N</u>			Υ.		1.1	2	2.			÷.,	1.2	12		1.			12					14					14					1.11	112	н
¥227. AC-MR282M2Preser domesticus			. N			Υ.																															н
9/228. AC-METR7204(Passar resolutions			. N			Χ.		1				1			1			42			1.1		10		1			47									Ш
✓ 228. AC-IPROV/28/Passer montanus.			. N			×.																															н
# 230. AC-GQ482355(Patronia patronia			. N		2.4	×		2.		÷.,							1.0													۰.						2.4	н
ZER. AC-FieldSES/Carporpiza brachydactyla			. X			×																															lí
232. AC-6Q480176(Mentifrepila revala			. N		2.2	Υ.		14							1.2			4					1.1		1.							1.1				14	Ц
¥200. AC-MESIONT/Loochura malatranca			i N			х.		8																													Iľ
2234. AC-3F408074(Lensitives purchalate		1	. <del>N</del>			х.					1.1				14		1.0			14	- 14	1						1			1.1					1.1	Ш
#205 AC-KODERLINE areas winter																						۰.										1					P
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9.205 AC-0	Q48/35/3Level of the nemorical la																																									
¥26. XC-6	Q4805408 Laucountie ta tarandhi					1	4					1							-						1						1											
SEDIT AC-FI	At5339@Acricogius obocieta					12																									1				17					1.1		
12.208, AC-0	Q481470(Linaria Revisionis					1		1.				1.	-		20			1.2						14	-		-				-		14						1.0			
¥208.AC-6	Q404558Linaria cannabina																								1						24											
9210.AC-8	US7U258 Losia-curvinentra						2	1				1	4	1	1									82	2						1						2					
SELLAC-N	N252999(Corduelis carduelis					1.																			1																	
9212.76-0	Q602809(Serieux pusitius		1.1			1		ς.,		Ξ.	ς.,		-	1.		Ξ.		1.2						14			1		11		1				20	10	1.1		1.0			
¥./33.AC-0	Q4814955pinus spikus					Ξ.	Ξ.																																			
¥254. AC-15	207477NjErniterios meteroscephale							10																				1			1			2	-			1	1.0	12		
925.40-6	CKINICAL Interest Investory 1																																									
¥216.AC-8	0501867/Emberics calandre						λ.					1																														
9-217-AC-IF	89LINdimberta fucata						1																	1	1																	
12218. AC-8	Q481347(Embariya via		41					11																24	1			1			1				1							
#238.AC-0	Q4837868/miterice.god/kevskii					14						1.4												1.1							ς.,				11							
1220. AC-0	PE7/E2/Epidenica atavanti				1		1	1.5				1	1					12						1							1							14				
1222 AC-6	Q483.772(Emilierica Teucologi/kalist																							24																		
#222.AC-M	#580175(Embarina etiishata				2.5			20					-						-							5														1.0		
H 223 AC-6	0571874(Drobellar schoerrichis					14	÷.	1.1				1.4												14		÷					1							1.6				
9224. AC-8	FILS784 (Erriburian warmthe					14	G.,	1				16	-											116	1		1				1								1.0			
9725 AC-8	US7UR728mberics polita					14	1					1.4												24																		
¥26.AC-8	Q481805(Emitterics rytile		4				÷	1.					-						-						4	÷	1	2					4				1.4		1			
梁田,赵小	K253K2Passer domesticus																				۸.																					
2208. AC-N	#767304(Passer meakiticas							÷.)													A.			1.0							1								1			
94229-60-8	957028P sizer montanut					-	1														κ.			8	1										40							
¥250.AC-0	Q602350Putronia patronia							10																	1						24				1					14		
9770. AC-10	WISTLINC assurgion brachy dacty/a																				A .			14																		
¥212. AC-8	Q482376(Marethringilia nivalia							2.5																8																		
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# 305 AC-60483538 exception removials					1																			
9 206. AC-DQ462040(Lesconsticte brandti																								
201 AC-Diabation double abovieta					1.																100			
# 20E. AC-GQ483479(Linaria flavinnshris						1.1													1					
209. AC-GQ40455Linaria cannatina																								
₹210. AC-GUI719983.esse-curventre					2.4								- 1				1.1	1.1						
2.211 AC-MQ82999Carduels carbuels																								
¥ 212 AC-GQRDK00[farinus punilius																								
9713 AC-GOMBARSSeinus geinen																								
#254. AC-JQ0747NjEvelierius malanousphala																14		÷.,		14				
2 ZIS AC-4CEBUENEHILBERTERINANCED																								
216. AC-00571967(Emberge talendre																								
217 AC-IRABILIDEmbeliza fucata																								
218. AC-GQ481747/Lethenia na									0.0						÷									
ZIR AC-GOMITINE miterics godievalui																								
9 221 AC 498790985 mbarus shavarti										22						1.2	1.14				12			
222. AC-6Q481772Emberiza Inucocephalos																								
¥222. AC-MPSR0125(Evidenias attaches										1.1														
2.223. AC-GR57187480v6veiza schoerichet																								
204. AC-EFELS786 Erroburina auranita																1								
2 225 AC-GUSTURTER-therite public																								
V236. AC-SQ483805(Emberga rutile					2.1					20.2	1.1.1				1.1	112								12/12
₹227. AC-MR283M2Paster domesticus																								
9 228: AC-METRITIDA; Passar meabiterus								۷		1.1	5										- 22	1.1		
228. AC-IPRIMIDIPatter montanus																								
# 23b. AC-GQ4823555Pathonia pathonia					2.0														1.1		1			
ZER. AC-FieldSELS/Carpospics brackydacty/a																								
#252. AC-DQ482176(Mentherpile mode					2.4												2.2				20			
210. AC-MESODETILonchura maketurica																								
2234. AC-2F4888748.emihara pumbulata									1.1												1			
225 AC-KOBILINE arkus minor																								
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And 20 7 als strate in our	Sec. 13,000	_	_	111							_	-	_	_	_	-	-	-	-	-	-	-	-	_

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15. AC-GQ48/8530Lesconticite remonicula																																										
06. AC-GQ482549(Lessonitiste Intendti						Ξ.	10											24					24	1					14						14	12					14	1
07. AC-11003339@Nodoupics obustets																															+		÷.,	ć k			* 1	- 1		ČŔ.		
06. AC-0.Q481470[Lenaria film/restrict							1											2.4					24						1						1	1						
99. AC-6Q493455(Lenaria cannationa																																									1	
ID: AC-GUI/DERBRILexia-curvintera						1	1														1		1						1			- 1		1.4			20			1	1	
13. AC-MR252089/Cardiodic carduda						Ξ.													1				24						1	1				1.1			20			1.0		
12. AC-GQ402630(Serinus pushlue						1												1					1						1											1.00		÷,
D. AC-GQ401490(Spinus spinus						ά.	1											1.4					14						1						14.	1	4.5		1	6.4	1	
4. AC-IQD4776Emiseries melanocephala						η.	1											1					÷.		1				1		1	20		1.	14		11	20.	1	22	14	1
15. AC-KCR/RED/Emilence Investory						Ξ.	10											1	1				1		÷				1													
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T. AC-IR498LX18mbertur fucata																																										
E. AC-GQ48L747(Embariza sia			1																				1													12						1
5. AC-GORETRNEmbercs godinestill																																										
0. AC-KPR77676/6mbarius stavanti							1											1					1													13					1	1
1. AC-SQ401772Emberiza Inucocra/halks																																									1	1
2. AC-MP580075(Embarina structura							1											1					1						1				÷.,	1.4					5.	2.4		÷,
3. AC-GUSTLEN/Ersberick schoenichig																															10			i k			90) 9			i R		1
N. AC-EFILS780/Embarics accessis						1												14					14						1						14	10					14	
5. AC-615758728mbetza publik							10																							- 22		-		1.0	14		*				14	
6. AC-GQ481805(Emberice rutile			1				1													 2															۰.							
7. AC-MK282882Passer domesticus																																		1.6	1					1.6	-	,
E. AC-ME767304(Passer mosterious							1																1		1				1													÷
5. AC-IPIS7028/Passer munitervis																																										
6. AC-GQ4823559Patrionia patrionia						Ξ.	2		1			-			21			2		1			÷.,						÷.	1				1.2	÷.	10					1	
LAC-HHESILS/Carporpics brachydactyle																											1							-			-					
2. AC-6Q4823783MentAlengilla nivalis						1	1							Ω.				2	1				2						2					1.2	2		27				2	1
3. AC-MP500007Lonchuse malifeatics																																										1
R. AC-3F4988743.cm/hura punctulata						1						1						1					2						2	1					2	1					2	
5. AC-K02831248.anius minor																																								19		1
																							-	10					110													

101 🕴 BOL 362, 863 (201/336)

Parties info: 20/

## (iii): Variation at Amino Acid Level (Parsimony Informative Sites) in Sequences of Passeriformes Computed by MEGAX

Where			(4)		4. 1		1000	+ *	2.0		1. 1	1.1	+ 6	AW	4.6	MIL	6.1	A 1	1 1	1.1	10.14	ι.ε.	1 6	0.7	6.1	111 4	5 (4
VI. SOLD-AAF57338_amain vitteman																											11
2 BOX DOAR 700 TRADBOAR Inchastory		22		1921			222	12.00	1.1	222			2.2			1.5					1201	1.5					
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A T ROTOVCTOROMING Indage with the	- 12 ·							1.0							10.00			100									
✓4. BOLDIAA09870(Galerida oldata arenicala		1.00				1.1				2.2						. V										7.4.1	- 11
S. BOLD:AB3000Pener hisparticletois		1.00							10.16							. V		1.1									
General environment of the second sec	- <b>1</b> - 1	1.4																									
OT 80 DAM BUILT wheehees med rations				202		1995		12.2	1.12							1.1											
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A 8 BOCD ACHEL20 Development of the week on the structure	- 12	1.5	•					0.0		2.5	1115	2.2				1.1											
9. BOLDAABDIADICervus splandens splandens	·	1.00	+							* *					1.4.14	- ¥	1.14				1.4.1.4	0.00	1.14	1.00		1.414	
@10.#OLDIAACIS38Phoeniculus odinans		1.00	*				( + ) =		1.1	10.0						- V											
9/11 BOLDLAAV9382(Chrynomma simenia		1.00				414			14.14		1.1.1																
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CALL BOY ON ACCOUNTS IN A REAL PROVIDER																											
A TT BOOLOGT TO A COLORADO DE DE DE DE						1.1										1.1											
A 14. BCCDIAAX46N/Metenocoryphe temoculata	- <b>1</b> - 1								1.1																		
9215. BOLD:ACE/048/Acriditheres gingmentes										2.12						1. Y		1.0				1.1				1 - 1	
CAN BOLD ACSTREET, Confector (uncode)	- R								10.10																	1000	
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A TO RECEIVE LARCED ALLEBARIA BURRAR		1.0	÷	1050		1.1		10 C		1.1																	
or an exclosed developed acts engineering	- P -	1.2.2		1.1		2.2		12.12	2.2	2.1						1.1											
9 25. #OLD:ACZ2757 Oreshan prestua	- <b>-</b>	-			4.1				$(k_{i}) \in \mathbb{R}$		5 m ( A			1.4.1.4	10.0	1.4	1.1				14.14	14	1.14		1.4	A . 16 . 4	11
222. BOLDI AA89623 Corvus corex cores		-	-		4.1		1414	+ +	1.4			2.4				1 V											
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✓ 35. BOLDIAANGRO(Pychonotus Rucogenys	- <b>1</b>	100		+ ; + ;	1.1	1.1		1.1	3.4			1.1			4. 4	1.1		1.						1.1			
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VI. BOLD-AAF57308.amus vittatus																												1										
2. BOLD ACZ2478 Print Buchanam																		1.																				1
941 BOLD ACZ2964(Alastia pulpula astmatia																τ.		1.1																				8 I.
✓4. BOLDIAA09878[Galerida cristata arenicata																τ.	. A																					. 1
S. BOLD-ABX0000 Paner hisperiolensis						1.1		100										1.												1.1								- 1
See BOLD AACIS HOUNG CUTUCE CUTUCE																																						. 1
№7. BOLDAA03014[7aphrodumis pandicarianas																		ι.																				
Wit BOLD ACH022(Dendrocitte vegebunde saturation																														1.14								- I
929. BOLD/AARDIAD Carvus splanders splanders		1.14			2.5				1.			1.	1.5					6.	1.1		1			12			1	м	2.1	114	14	-		12				-
₩10. #OLDIAAC1338/Phoeniculus ochiunis																		1.1															2.1					- 1
#11. BOLDLAAV9082(Chrynomma simenia				1.00															-																			. [
SF12. BOLD AB280395 arrivs schech schech																																						21
VII. BOLD/ACZ2425/Primis socialis ancialis													÷.,																									- 1
¥14. BOLD AAX4694(Metanacorypha bimaculata																τ.	. A	٤.,															6.1					
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#1A #0LDACSIDIL/Callotte juncific																	. A	1.																				1
217. BOLD: AABII128/Parties research									1.4																					1.			2.1	14				- 1
#18. BOLD ACZIER[Embergs buchaves																																						
№ 10. BOLD.AEH8ESS[Enemopheria griseus				1								1.						ē.,				* 1					6	ы.		1.1			0.1					91
20. BOLD AABJERI Carpedacus arythrees																												a.										
21. BOLD:AC22957[Oristus printus		4.14	1.1		40		12			- 1	a							1.0	14.1		-	÷.,		140	10		6		-	1.14	14	1		1.1		1.14	1.1	- 1
22.20 BOLDLAA85623(Cervus cores ceres																		1.1																				- 1
23. BOED: AAE2736 Pericrosoftus sinnamomaus				-			-			-							- 4							-	-							-			-			- 1
24.8CLD.ACZ3474(Priva hodgiona)																	- 4	1																				- 1
✓ Zi. BCLD:AA82262]Zestarops patestronus patpatronus									1.1																					- 14	1		0.1					-
38. BOLD AANORO/Pychonetus inscripting																																						- 1
27. BOLD ACHEER/Phylescepus affinis					2.5					1						ч.				1.14			1.4					a.	10	1.1			6.3	14				- 1
28. \$0LD:ABA5001Konus machenynchus					1				12								. A											м		1.1			ι.					1
29. BOLD: ACI7200 (Cognyohus saularis saularis							1.00									а.		5													14		2.1					1
30. 80(D/AAV3383)Tiochrispheron lineatum lineatum																																	1.1					
VIII. \$0L0.ACZIEA0(Parus majar	1.0			140		1.5		1.	1.4									1.1				-		1			1			1.1	1		2.5					1
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VI. BOLDA	AF\$7338umius vittatus			-					2																1.														
2 E0LD 4	CZ2476 Prina buchanani																																						
VI BOLDIA	C22564(Alasida gulgida asimulia						1.1									х			22												2.2				222			1	
24 BOLDA	A098700Gaterida cristata arenicata								1												. 1																	1	
VIS BOLDA	EX5001/Percent his particulation						1.		1.1									1.1		1.												1.				1.1	1.2	1	÷.
A SOLDA	AC8538(\$),448 Currico currico																					ΞŦ.																	1
27.80LDA	AU3934(Taphrodumic pandicarianiat								2.		ς.																				24			2				÷.	
WE BOLD A	CH022(Dendrocitta oxgaburida saturation			-					1.																													4	÷
29 BOLDIA	ARD140(Carryus optienshine splenshine		Q. 14			1	1.1						14					1.4	1.4				1	ι.					141		1.1.1		2.1	114	14.7			1.1	s,
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215.00.07	CS4748phoridatherer gingitierus	1.1					1.5									-		1.5	1				÷.	- 1						÷.,	1.1		4	2.5	1.0			14	
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19:10.BOLDU	CO-BESS(Exemples) grows	- P.					1.1			14																		- 2			1.1			1.1	14.1		1.1		ŝ.
97.30. BOLD /	AB0874(Carpedacus etythrinus																																						
¥21.80LD4	+CZ2757(Orielus orielax		4.14		4			4.64	1.4	-	4.0		14	-				1.4					4	4.14	1.4	-	4.1		4		1.1	4		1.	1.0	4.19	0.4		
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¥35.BOLDA	V4L2788 Pericrosoftex similarmomates			-			2.12							-							÷		۰.																
A31 60101	ACZ2N74(Ponie hodgsoné																																						
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₹.85.80LD/	LANSED(Pychonotus Inucogenys																													1.1	1.1		1						
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<ul> <li>#2. BOLDACZ2018[Privita Inschanteri #1. BOLDACZ2088[Alastida gulgala australia #4. BOLDAAD9971[Galerida cristika arrevicida</li> </ul>				e nel <mark>n</mark> period a cons	on mana a sub on an a' A
21. BOLD AC22944/Alexile gulgule australia 24. BOLD AAD9871/Salexile cristale arenicale				enere en el ser en el ser en el ser el ser el ser el ser el ser el ser el ser el ser el ser el ser el ser el s	
24. BOLDIAAD9879[Galerida costata arenicola		1.1.1.1.1.1.1.1.1.1			
	3				
25. BOLD: AB43001/Pesser hispanishensis					
2.6. BOLDIAACB338(Sylvia cumuca cumuca					
21. BOLD AAU3034 [Tephnotomis pundramenas	Sales and alle	Sector a second			
2.6. BOLD/ACHE023(Devideorite vegebonds taturation	1				
#9. BOLD-AARDIAD/Canva aplandams splandams	1				
₹10. BOLDIAACISMIPhoenicurus exteruros					1 1 1 4 4 4 4 4 4 4 4 4 4
211. BOLDLAAVIOBJIChrysomma sinamaa					
X12. BOLD AB2803 Units schech schech					
<13. BOLDIACZ2079/Privia socialis socialis					
714. BOLD ASK4894 Meterocorypho bimaculata					
215.80LDACEO48/Acrohitheos prigmanas					
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2.05. BOLD A480EN(Carpidocus etythonal					
21. 6OL0.4C23757(Dealus methas					
₹.01. BOLDLA485623[Corvus corex cores					
# 23. EOLD: AAL2756 Periore situa comensimasa					
2 34. BOLDIACZ2878[Prints hodgconk					
XX 8000 AA82942 Zenterspr paipalerone paipalerona					
35. BOLDIALNIBBI/Pychototus leucogenys					
27. BOLD ACHERIN Phylancopus affinia					
235. BOLD ABASSIN/Canati michoryhchia					
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# 18. ROLDIACZISHOP was major					
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Seat 54 (111152153(51/30))	Parties-Info 20:000 201 base selected
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9/42 AC-6Q48360[Canvus menalula	📕 🖉 a na anala a anala anala ang kanala ang
241 AC-6Q82573(Pyrihocom graculus	······································
210. AC-6Q482576 Pyrhautron pyrhautras	· · · · · · · · · · · · · · · · · · ·
939. AC-00370300 Plucifinga cargiocetades	• • • • • • • • • • • • • • • • • • •
9/36. AC-GQ4E2470(Picepice	· · · · · · · · · · · · · · · · · · ·
937. AC-IQL/BROBURDISE erythromyrche	· · · · · · · · · · · · · · · · · · ·
256 AC-SQ481963(Ganolus glandarius	· · · · · · · · · · · · · · · · · · ·
9755 AC-ECIS4809Hypothymit assess	······································
954. AC-30078130/Rhighdana surveile	· · · · · · · · · · · · · · · · · · ·
#53. AC-IQD1M80;Dicturus hottestattus	••••••••••••••••••••••••••••••••••••••
9/52 AC-IQE74606Discussa macrocarcus	· · · · · · · · · · · · · · · · · · ·
951. AC-60822780/white children is	· · · · · · · · · · · · · · · · · · ·
9.50 AC-IF4927888 arrive exception	· · · · · · · · · · · · · · · · · · ·
949. AC-09525998 anius tephronotas	· · · · · · · · · · · · · · · · · · ·
9748. AC-SQ482803Lemon cristellus	· · · · · · · · · · · · · · · · · · ·
#47. AC-GQ482028Limite isobelinus	
246. AC-M949300343 arrive collared	
745 AC-IQ17006Aegithina tufka	· · · · · · · · · · · · · · · · · · ·
#44. AC- AB\$432010 He Inschute	
¥43 BOLD ACZ29/3Capsychus fulcature	
942 BOLD AAM/9836/Denanths picata	
24L BOLDACHERITORIUS Submus	
¥40.80(DAB//SI00Cervas mecrohyrohas	
V 18. BOLD AACL 199 Patter consumering sublass	
V III. BOLD AC 2004 Emilariza lathemi	
WIT BOLD ALBEITER AND INCOMENTS	
V 36 BOLDAT ZNOEH unineten investerenteten	
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212.80L0A	C22046(Unscissa Nevirontris Nevirontris								14																													1
VIII BOLDA	CZ2005Blachyriddigsis gyrthops																																					. [
VIN. BOLDA	CS464/Terpsiphone paradisi paradisi					1	٧.					1		10		2.2	5					1							1			12.1					1	
23 \$0LDA	AC\$7538Ayophonus caenatus						χ.										1.1																					182
916.00LDA	C2306(Hypelpeter laucocephatus						٧.,		141		12	1					2.1					24			1		1.4					141			14.5		1.1	- 101
¥17.80(DA	48/12/10 koruna impogihareus						х.										1					24										140					10	112
2.18.80LD.A	C2004(Emiliarica latturni			. <u>N</u>			х.				έ.											1										12						-10
¥38 800.0A	ACL299/Patter contamoneus rublans			<b>X</b> .			x.		14													1																10
¥40.800.01A	BNS100/Carvas meantrhyteithire		14.14													12.	ι.	1.14	14							14	2.4		A.,	41.4	12		1.1	1.14	14.1	1.14		. 18
241.801.04	CH6201(CH9+otomus sutorius																9.1					14										14.1					14.1	
9/42.80LDA	AV/0006/Cenanthe picalla						х.						÷.,						1	-						1					1.			1.				
¥43-80L0A	CZ2562(Copsychus fullcatus						٧																															
9.44. AC-AB	43703/Pitte Inechysere		1414							-								1.	16			1	1		6.4													
945.AC-IQ1	73006Aegritiona tiphia						Υ.															6																
246 AC-MH	\$393349.artius collume								1.							1.		÷	1			1.	10										2.14	1.16		1.1	4.1	11
WAT AC-OQU	B2X291Lerrisz isobelinus																																					
9.48.40-004	B2013Lansus cristatius								141			1			÷.,							1.1									1.	-				1.14	100	
949-30-093	213083.anius tephenotus																					6																
1230. AC-1840	0700 Juanios extrabitor						н.			- 1		- 62		10		1.	1	2.4	16.				10						1		1.6	10		1.10			1.1	- 11
953.40-004	822/BjOnutuc dravencia						У,																									G. 1						
#12.AC-IQE	14606(Фіслипи ітволосятсяя		1414	- 14		1	٧.		14	- 1	4.4	-	14.1		÷	14	2	1	1.		47.4	1.			1.1	14	a . a		- 1		14	14			14.53	214		
£53.40-KU	N660;Dicrurus Notentuttus						Χ.																															
954.AC-801	N120/Rhigistura aurenta						х.			- 1			1					1.14					÷.			-			-									- 11
R25.40403	S4929P4(pothymes.ecures						Υ.							11								1										10						- 11
₹SE AC-SQA	81960;Genulus glandariun						к.			- 1		10		10				67	14			1	10		1.1		1.1		1	11.1		11	477	1.14		1.1	Geo.	-11
937.40-100	8603Urocicus erythronhynche																		16			1										10						- 11
958.AC-604	E2478(Pica pica			-		1	E.		19		2.5	÷					1.1					14			1.1		1.1				14	1				1.14	14.11	-11
×35.4C-013	71501/Hooffrage carginicatestes														6.1		1.1					1					1.1			1.1	1							- 11
200.46-004	82536Pyrtaurox pyrtexaa				÷.,						1	16						1.1				1				1.						1	1.11	1.10		114	30	- 11
WAL AC 6Q6	8250(Pyrthocom groculus																					1										1.					14.1	11
YELAC-OQI	8160 Census mineñola		14.1				н.			-						14	λ.					1	11				4.4		14.7		1.							18
(A)	and the second sec		_			201																																6211
Staff	101 1 Mit, 102, 103 (201, 130)		Parties	lefe:	28/33	6			.2	li te		lected	1																									

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V 12. BOLD ACZ2846 Unions Reveatris flavoration																								м .	1								1
2 II. BOLD ACZ BUSSIscholdigsk gymbori																																	1
V N. BOLDACSHIMTerpriphere paradici paradici			÷.,																			2.2					1						41
# 25 80L0.AAC\$7[]#Arophonus caenalius												1.1	٤.																				11
× 8. 80L0.4C2308Hjungsten laucocephatus				2																1		1.1			100					1.1		G. 1	46
2 17. BOLDIA48/12/[Dicruma inscontineus																						24										10	10
# 36. BOLD:AC23094(Emiliarius lathami				1	2.2																	2.4			0.7								11
#38. BOLDIAACLE99/Passer contamoneus rublans		1.14																		1.					1.								11
#40.80L0(ABW500)Cervas macrothymithas	1.1			1.	1.								÷.,				2.4					1.1						11			1.1	4.17	11
241. BOLDIACHEREI/Orthotomus sutorius				1.																													11
# 42 BOLD:AAW990B(Denanths picate																1.																	.11
#43 BOLD ACZ2963 Capsychia Nekaturi																																	11
# 44. AC- AB\$43201(Pitta Inachytana					2.2																				121					- 1	1	1.1	.11
#45. AC-IQ17000LAegithina tuhia				1										140																			-81
#46. AC-A04030348.amius collumn				1		1.0				1.1								12				2.2										4.1	41
247. AC-GQ4E2020Lanus isobelinus																																	11
#4E.AC-9Q48203Lamon children																	2.4					1.					1.					-	1
#49. AC-EP6215998.anius tephronotas																																	41
# 50. AC-3F4987883.amias excubitor				1										A													1	2.5				1.1	1
# St. AC-4Q482278EDiretus chinenos									£																								Л
#52 AC-IQITHINIDicruna mecocamoa	1.1				1.									*														23			24		1
2.53 AC-IQD1M80,Dicturus hoteinuttus																						22										5.1	1
#54. AC-JQI78130/Phigidura surveile														Α.																			Л
#35.AC-6C354929Hypothymis.source																																	1
# 56. AC-SQ481963(Gamplus glanderion																				1.													1
237. AC-IQLIBROBILINGUE erythisehynche				1										142								1.		н.			1					1	41
#18. AC-604E00BPcepto																		- 21				2.4									1.1		41
# 59. AC-00570500 Pluchaga carpocitades																																	41
#60. AC-00482076Pyrhaumax pyrhaumax				1.1																													1
REL AC-GORZSTEPythocoliai graculus																																	
VIEL AC-GOILLISED Carvas memalula				2																				й.									
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232 BOLDI ACZ2646 [Linociana Ravincetria Ravinostria									-									- / -																	- 1
✓ 31. BOLD ACZ2805(Stachyridepsk gynhops)																																			16
W 34. BOLD ACSA564[Terpophone panalisi paralisi								1.		1.1																		1.							11
✓35 BOLD AAC\$7L1Myophonus cam/mis										1.1											1														11
36. BOLD AC22000 Hypropeter Instancephalus						1		14		2.4	-						14					43		1.		1	1.1			1.1		1.1	10.00		- 11
WIT BOLDLAAS/TITIDictures Incognesis																						10									10				1
218. BOLD: AC23004(Emberice Tethemi						5		1.1		1.1	10													4.						1.		1.	1.14		- 11
R B BOLD AACL INSPasser cintemoments rullians										1.	1																								- 18
#40.80LDABASSR0Cervia macrohymhes					١.	10		1.		1.							1											1.0	1	1.1	1				211
241. BOLDIACHEIBIJOrthonomus suborius																																			211
242. BOLDLAAW889QOwnenthe picuta						-		1.2	- 6	2.2			- i -	- 14								20	1.		11.			1.4	÷.,	114			12.74		- 11
243.80LD ACZ2553Copsychus Nakonus										1.1																									- 11
244. AC-ABH1701/Fitte brachyses				-	ε.		2.6		1	1							14					1					÷.,					1.4	10.1		- 11
9245. AC-IQ173908Aegithina tahia										1.1											14														- 11
₩46, AC-5948380348, arrive collume		10								2											1	10						14.1		1.1	10	1. 10			11
947 AC-5Q4EXV9Larius isolitelinus										1											1					1.0						1.1			11
248. AC-0Q482053Lemia cristetua								1.4		1.4												***						1.			1	1.00	2.7		- 11
9249-34C-EM225998Lanius tephrisonatus																												1.			1				11
250. AC-3F4007043.amia seculitur		20					- 1										1				1					1				1.0	1	1.1			- 11
251 AC-6Q8228[Onitius channels										2.4															1.16										211
2 S2. AC-20214606Distration macrocommun		4.1								1.1	4										1	4.5								1				1.40	211
955 AC-9011695(Dicruna hoteetattus										1.1																				1.14	ι.				411
954. AC-20078130/0-pidate surreria								1.1		1.1			141								1.							1.21	÷.,	1.0		1.1	1.14	100	211
#35. AC-RCI54529(Hypothymic apunta																																			- 11
956 AC-6Q80963Genutus glandarias								24				÷ 7									÷			÷.,	÷.				1			1.1			- 11
2 ST. AC-82076803Urocous erythromynche																												14							- 11
258. AC-6Q4EM/B[Picapina											-														c îs						10			1.00	- 11
939. AC-60573303 (Hoofinga caryoutactes																															10				11
92.60. AC-SQ4E253(Pyrehamman pyrehessman								1		1.														1.				1.			1				411
Rel. AC-6Q4825/7[Pyrthecoms greculus										24							1					10		10.1											- 11
2102 AC-0Q60567[Cervus mumedula										11	1										1					12				86	1		1.1		48
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Seat 201 - 401 402 403 (201 / 380			1	100	20				25.4-	a tala																									

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913 BOLDI ACZ2546 (Dirociana filavinostria filavinostria .																														-1
✓ III. BOLD ACZ28/503achuridepait gymbogs																														- 1
14. BCLD:ACS464(Terpsychone paradic paraties					1.				22		1.																			- 11
✓ IS BOLD ALCS7L18Ayophones certaines			1.1																								1.4		1.10	21
936.80x0AC23898Physiphen Insurscephalus					1.	1.1	1.1				1		414			. 1					1.1				1.2	1		1		- 11
STIT BOLDIALBITITIDIciums Inucophanus			1.1																				1.					1.1		- 14
238. BOLD AC23004 Emiseria Mitami			4.5		2.42									1.0	1.1				1.						1.	10		1.1		- 1
2 IB BOLD AACLINGPasser citizanormeus rubilans																														-11
#40.80L0ABMS080Kervia macrohymhm .			4.6			1.1		120			1							1.					1.	÷.,	1.1					- 1
241.80(0)ACHEBI[Orthonomic subonic																														- 1
242.80LDiA4W899QOwnerthe picate	1.2.2	2.4			1.41	212			÷.	1.414				1.49			-		( a	11.			1.47		114			10.14	12	-11
943.80LD ACEDROCopychue NAcetus							2.5														1					i.				21
244. AC-ABH1701/Fitte brachysee .		1.1					÷.,	1			÷.,		1.14			. 1	10					κ.							1.1	-
SE45. AC-IQ173908Angithina tuhia			2.5				4.1													2.04		2.14	÷	4.4	1.1	1	1.14		6.00	-
√46. AC-5948380348, arriva softerior			4.16		140			1.0			1		1.1	1.00							1.0		340	1.1	1.	10	1.1	6.1	1.0	
9747. AC-6Q482009Lavius-isobelinus			4.4				1.1																						13	- 1
248. AC-GQ48280(Lemas ministratus		1.1	1.10		199	1.1	2.5				1		10		1.											1		2.7	1.1	-11
9249. AC-0521598 Earlus hphilosofus			1.1		1.																					1				21
250.AC-IHIDBB artis and the			4.14		1.4.1	- 14	4.4	1.00			1			147	1.50	. 6			140	1.5			1.0	6.5	1.0					- 1
2.51 AC-SQR22REOrelus chineros			4.15								1	1.1																	0.00	- 1
VSI AC-IQD4606Distrate macrocenter .	1414141	1.1	4.14		10.1	1.4	4.1				÷.			145						1.1	-	• •	-	•	0.00	-	1.1	-	1.11	- 1
€53.AC-IQL1686(Dkourus hotestattus																					-	• •	. *.	• •	1.0		1.0	+	1.1	-11
9/SLAC-IQUILID/Dipidura aureala .	1.1414				140		4.4	1.0		1.07.0				1.47	÷				10.1		-	+ .		+ -	1.4	-	1.1		1.11	-
9755. AC-KCIS4809(Hypothyme) asuna .			1.1																						1143		1.14		1.00	- 1
9/16. AC-SQ81063/Genulus glandarius								1.0	1.1				1.7	1.0									100				1.11		1.11	
9/57. AC-30278603Uroossa erythiohtyncha	(* (*)*)						4.9															• •		• •		۰.	1.1	+ •	1. 11	-
2.58. AC-GQ4EMB(Peapers			A 16					1.00	1.1	100	1	1.00	1.1	1.0						1.00	10		640			10	1.10		1.3	21
9 59. AC-60575303 Nuclinge cerysolatetes			4.1								1															1	1.04	-	1 -	-
240. AC-GQ4E255(Pyrthamman pyrtheolena)			1.1																							1			1.0	- 11
With AC-OQ482370/Pyrhecener gradulus			1.1										1.1						1.0							1	1.11			-1
9.42. AC-GQ68560[Convermentation .							1.1	1.				1.10		- 61				÷.,		1.5	5			1.1	1.0				1.00	- 1
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See2 25 792,752,753 (252,788)	lam etc.	35,000			22	S taxe	alate in	4																						

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782.AC-6Q	4836470 Cervice memorialiste					1	1								4.1			1.1		-	1	. )	÷.,		1.67	1	1.1	8.		1	1.1		4.0				R.
241.AC-6Q	4825/73/Pyrhocomi graculus						1.1	1.1	•	÷.,					.,	0		- 1				• •			1.	- 1						1			1	+	н
₹10. AC-6Q	682556(Pyehasiana pyehasaras		+ +	141		1	1.1		-		1			14		1			14	• •					10	- 1	1.					1		1			U.
158. AC-585	SP1501/Huofraga caryocataktes			-		-	1.1					1					1					1.1				5.5	18				÷., +			÷.	-		П
258. AC-60	482478 Pice pice																											-		-		1.0					П
757 AC-108	75003Uspoissa erythistelly tucka		979					112	1	27.	1	20	212	1	1.1	14	21		121	2.1	22			211	12	202		2			2.12				21	27.	11
256 AC-00	411963(Gerrulus glansterus		4.4					1.4		ι.		4		1	4.4				14	1.1	22		1.0	1.1	1.4	4.6	1.1	2.5	4.14		1.14			1	ά.		H
¥55.4C-KCI	549090HyperBrynnis stures	1.	+ -			1	1.1				1	۰.		14		1.4	1		14	• •		+ . •			14	- 1							+	. +		+	U.
254. AC-101	NEDD/Pripidure europle		÷., ÷	1.	1.1			1.1		1.1	1				• •	1.4	14	1	281	26		2			14	1.1	12		1.1	÷.	1.1						11
455.4C-IQI	1895(Diovrus hottentattus						1			÷.,							1			5.6		÷.)			14												11
12.10.00	1600(Diorusia mechoanoa		2.2	223				1.		÷.,						2			1.	20	1				140			40		6	÷.,		4.0	1.2			11
¥31.40-60	W227NOvelus chimencia		÷		1.1	54	23				1	5		14.	4.1	1.4	1		14	4.4	1	- 1			1.0	1	1.1	4.	1.4		1.1		4.5	1.2	4		11
#30. AC-1840	2020 Larrist moshifur	1.2	1.1		11		1.1									1			1	1.5	1				ίa.		1	10				1					1
249.AC-040	215HE anius tephronotus	6	1 0	1	1.5	. 11	¥. 1	1.4	¥.	γ.,					έ.	1			14			6				- 1	1.				1.				1		ŧ.
7.4E. AC-600	482003 Lanius cristatus			-								4				1	1		14						1.		2.				1.	1		1	4		11
247.42-50	402020Lanius isabellinus			-							-	-	2.2				4				-														-		П
746 AC-184	0180148Jamius collume					÷.,	14					11				14		Ξ.			1.	- 1														2.4	11
245.40-101	73908Aegthina tuhia		202		111			11	1	ι.		20		12		1		1.	12	14	12		1.	2.1	1.0	11	1.		111		1.	1.	2.1		21		E.
244. AC- AB	B412010 Ha brachstere		1.1									1				1				1.1	1			1				1				1					0
243 BOLD A	CZ2962Ciptychic Micitus		1.1		2.2	1	1.1			2.12	1				11	1.1	12	1.1	1.	17		2.1	2.2		14	1.1	1.5	1		1	1.		2.1	1			11
40.80LD.A	UNIVERSE Consenting picture											1			-	1	12	۰.	-		-				-		12				1.		÷.,			2.	H.
241.6010.4	CHEORI/Cathotomus sutorius		2.2	1.		1		1.2			1	1			2	2	1				1	11			1.			4				1					11
¥40. BOLDA	PASSARCenne mecenhowners		10.				54										1			12									1.1								Ľ
238 BOLDA	ACL199Pater ownamoreus sublant						5.1									2			32	11	1				12		1				14	12		12			H.
2 18 BOLD A	C210040Emiliertze letherni		1.1							2.					1	1		۰.		÷.,		Ξ.			1.1	23	1.5			1		1		1			11
11. 80LD.A	ABITSTIDIOUNUS Inucophenus					1	1						1.1														1									1.	11
VIE BOLDA	C22600Haragetet leasanaphalas		÷.,			1	1					1.		1.1		1		Ξ.							1									2.			łî.
73 BOLDA	ACSTLIBArophonus caenieus		212	-	2.2								11	1	2.1	1.4		11	14					÷.,				1		1			÷.,		٩.		U.
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111 201 014	7787Vischutdene overheite		102	101	1.1		2.1	12				1				10		0.1	12.			2.1		0.1				1	2.2		2.2				61		t.
#10 800 A	C 7 1948 Housing Revenues Revenues						1.1									22					-										22	12				2.2	r.
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Allama			LIFGAWAGM	GTALSLL	TRALIGOPGALLG
263. AC-5Q483640(Cervus huplague	• • • • • • • • • • • • • • • • • • •	etererere ere alle alle			
864. AC-6NS7LS2L Panuna biannicus		- NHKDIGT . T	1		
ESS AC-19465300(Antomorranian alsoarti					<mark>.</mark>
2.66. AC-MP3802080 enviptorix repricept		<b>-</b>			· · · · · · · · · · · · · · · · · · ·
767. AC-OQ40854Esemephile algertre				1	
248 AC-SQMIDD2Calendedia acutorette				C	
60. AC-GQ481425[CalendralIa rufassame					
2 m. AC-GQ882008/Riperte reporte					
# 71. AC-GQ882608Riperia dilute					
ET2. AC-GQ482578Ptyonoprogrampetris					
71. AC-MP380225(Phyonegrogite fulligate				I and A and a second	
274 AC-KY7545009Heynde nutlica				A to a State of the second	
75. AC-004033394 investor amithia	MTFINRWLFS	TNHKDIGT		· · · · · · · · ·	
776. AC-GQ40533(Cecropic dautica				1 X	
277. AC-GQ4E3699Dvilution whichm					
7 TE AC-GQ404902Delchoo desput					
710. AC-JQL7813SRhipidura hussianthe					
All AC-101745921CulkScipe crylonensis			Y		
elli. AC-8025707/Cephalopynis Networksept					
R82, AC-20000790/Pergenus ater					
#83. AC-HQ238294/Fana rubidiventite		- NHKDIGT			
2.64. AC-+MUR10148.rghophanes dicterios		- NHKDIGT			
#85 AC-DQ4816836Cyanistee cyanus	· · · · · · · · · · · · · · · · · · ·		·		
Am. AC-DB487250Parus memboolus					· · · · · · · · · · · · · · · · · · ·
#17. AC-012572070@lamie penduknus					
206. AC-HQ005086AegRoalds concinnas		TNHKDIGT			
680. AC-43467143588a Lashrrowini					
# 90. AC-KARDISTISEts tephronota				· · · · · · · · · ·	
# 91. XC-40467140;Sitte Inertails				A	
#92, AC-00482775Chedrome motoria					
400. AC-AP282529/Centria heatgeoni					
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9243. AC-4Q403640(Canvas Inaplegus																														
#64. AC-00571521 Penuna bierrikoa										1 .																				
# 65. AC-51465300(Ammomanas datarti										11.						1.							2.2	÷.,			1.0			
2 06. AC APSRUDIEmmorpheria nigriceps					e											1														
9.67. AC-GQ48064(Enerophile algorith								1.0				1.0				1.1	1.1							1.				1.1		
9766. AC-6Q481412(Calendrella acutinothis								à 1																						1
9.60. AC-0Q403426(Calamitratia nutricores								4.6				6 B				1.	6.5							1.1						
97.10 AC-GQ82005Ripola lipola					6											1.														
271. AC-GQ4EXI00Riperia diluta	1.14			. 1	6			4.5				÷.,				1.	1.1											1.1		-111
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973 AC-MF980225(Phyaneprogra fuligala				- 1	<b>(</b>		- 1-				2.14	G			1.	1.1		1.				1.0	1.52	6.	1.00		24.0	214		- 138
9274. AC KY754515(Heundo natica					(			÷ 1								1.1													1.1	10
#75. AC-GU402335@Haunda amithis								÷.,							-								1.1			1.1	1.0	1.1		100
₩ 16. AC-0Q481553(Cecropic daurice					6			6 s				÷.,				6.2													11	
277. AC-GQ482609(Delaham arbicum								6 S								1.1	10						1.1						100	
978 AC-6Q40893Delichen deppst								10							1.0	100														
270. AC-JQI76135(Rhighdura hypotantha				· • •	6			1.0				1.1				1.1							1.1						10.0	
9780. AC-IQUVISIO/Calkicapa crylenensis		N			<b>(</b>			1.1				0 I I				1.1							1.1	1.1				1.1		
9281. AC-56233707(Capitalogyrus Hammirage			1.1	- I				1.1	1.61			9.1	1.00			1.1	1.1			1				1.		2.0			1.1	
92 K2, AC-00500790/Periperus atter					6			3.5																						
9/83. AC-HQ228194/Panue rubidicantitis	1.1			-	6	1.47		G	140	1.14	-	G				1.1							1.1		÷		1.00	1.1		
9.64. AC+HMIRS048.ophrayhanes dictirous					1.00			4.4				1.1				1.1													G	
9/85. AC-0Q481880(Cyamiahas injuntus			+ +		1.425								1		-	÷.,			÷.,	4.4		1	-1-		1.00		140		1.1	
97.85. AC-10349125(Parus monticulus								4.4	1.4				140																110	
#87. AC-\$1572039 flamis panikulmus									1.01								10.0	1.1					1.01		1.1		100		1.1	
9 88. AC-HQ88528854epthulos concinnas						1.4		1.1								1.1											1.01			
980. AC-KHETH3;Sitta sashrrivarwa								0.0				Se. 1				1.1							1.1		-		141			
9190. AC-KM67257/Sitta tephronota		· • •			6.00											2														
9 St. AC-43467348(Sitta Inentalia		<b>X</b>				1.1						1.1				1.1			1.1				10.0				110		2017	
9/92. AC-6Q482777(Chedreme mutaria		· • •						1.1				1.1				1.1												1.14		
990. AC-49282529(Carthia hesigaine		· • •															4.55							1.1					1.1	-
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Sam <sup>2</sup> 301 - Bill 302 MB (105/188)	Per	m-ofe	18/330	1		21	Stee	wheth	4																					

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267 AC-0040	854(Exemple de algentrie					ς.													λ.												47		1						1		11
248 AC-SQMI	432(Calandedla acubiotetes																1		χ.																						11
9:60 AC-60481	425)Calendralia rufussarre						1										. 1		λ.			1.																14			41
Km AC 6Q882	605(Rigueta viporta					έ.	1.									ч.			A .										11.						1					1.1	41
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972 AC-6Q80	STEPty incorporate superiors																																		τ.					1	
1273 AC-ME580	225(Phyonoprogra fuligide						ί.,	1.5											4				-								-									2	16
采用起来的38	SUBHirundo nutlica																																								48
975 AC-0040	1259Havendro amilitria																						-																		11
R 16. AC-6Q40	533(Cecropic disarics			1.1																		1																			11
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¥80. AC-101143	85)Calicicepe crylonensis			1.0																	14											- 1			٩.,						11
9281. AC-802257	07(Cephalogyrus Henricago			1									4.)	- 1										1.1				1.1	1.4				18						1		11
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With AC-DBART	20Parus monticolus			. *															A   1																						11
9487. AC-61873	070Planne pendulinus					•		1.5				н	•	- 1					٠.				-			. *			0				. *	-	1	-			1	1	11
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9490 AC-KM6/3	57(Seta tephronota																																			-					
991 AC-80671	46CSata frontalia				1	۰.						-	•	•		н.					1.4		1	- 1							۰.,				9	•				10	11
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Will AC-OQ805400 Cervas fragiliegas																																274		1
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266. AC-MP3802883 remosteris nigricess																															12.5			
9 67 AC-6Q85854(Enerosphile algestre					1.1				1														1											
9166 AC-SQ483432/Calendedia acutivemis																																		
260. AC-SQ485420 Calambella nafescana									÷.							÷.,					1		1										5.1	- 11
SETD. AC-GOMOX05/Reports reports									÷.																									10
971 AC-GQ82800 Epera siluta										1.1				1						1				11					111				10	- 111
¥12 AC-SQB2515Ptyonoprogra rupethi																																		-12
971 AC-M/S80229Physroprogram fuligate			1.				1.0			1.1		1.									1													-10
274. AC 407545109Hounde nutrica									14	1.1				1.									1										Ge 14	- 10
9275. AC-00401135Hirunda umitha							121		G.			1.				212						274	1.				214			1	1.1		14	- 18
976 AC-0Q803328Cecropic deurice					1.1				÷.,	1.1													24										Sec. 1	- 11
277. AC-6Q482609(Delchen sebicum									÷.		1.												÷.,					4		1			4.1	- 11
278 AC-SQ4EIRR(Delichon datappus																					1.													- 11
¥79. AC-IQLINLINRhipidure hyperanthe					1.0		1.0		÷.,	11.													÷.	è.				1	2.5					- 11
97.80. AC-IQ174590/Culkcicapa orylonersis							1913																1									1.4		
281. AC-0225707/Caphalogynus flammicape		4.14		Ξ.					1															20			04			1		24		- 11
282 AC-0008790/Periporus atter			1				1.		5.4												1													411
983. AC-HQ228194 Parametering		6.14	1.1				1.2				1.0													10.								1.1	1.1	
284. AC-H64285/048.ophsythanes dictivities							1.0																											- 11
9.85. AC-0Q681680(Cyanistian system)				÷.,	10				1.	1.1				1.0									1	20			24					1.1	1.1	- 11
9786 AC-0848725/Parus monticulus					1.1				1.				÷.										14									1.14	10.0	- 11
9.87. AC-00572079/famie pandulinus			1.		20				1	1.10													1										10.1	- 11
¥88. AC-HQ85288(Aeg8hakis concinnus																																		- 11
289 AC-646714358te castimismus					1.1				1	1.14													1	43				4					4.1	11
99.00.4C-K46725758ta tephronota																																		- 11
9291. AC-KAK/148258ta frontalio					1.5			÷.,	1.	1.5													1	63									10.0	-11
9192 AC-SQ4E2777[Chodrema mutana									S							1.1					14						1					1.1		
933. AC-89261529/Carthia hodgsore		1.1					140		÷.	1.1										1					1	1.1				1	1	0.4	1.1	15
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WES AC-OQ481640(Convus Inspiregue			1.																																- 1
964 AC-68571521 Peruna harmicus																														Ξ.			ς.,		- 1
9465 AC-FHEE1003Ammomanes alexante						2.5			2.1					1					2.1					23	11				-					1.1	- 1
200 AC-MESO200Exemophene registrers																														1		-			- 1
9/67. AC-GQ482854[Eremophile alpestric					1.12		1.1		1.4			14								ю											2.4		20	14	-
266 AC-SQ40302[Celenitedia acutorosite									24					1																					-1
9400. XC-GQ403423 Calanzhalla rufacceta																																			- 1
WITE AC-OQ482005/Riparta reporta																																		1.0	- 1
SETS: AC-OQ403008/jparts dilute		1.14		12.0		1.14						1.4		1.4	1.1		14.1		4.14	-													* (*		-
971 AC-00482578Ptyshoprogre rupetro									1. 4																		1		1		1.1	1		1.3	- 1
#73. AC-M9580229/Ptyonoprogra Tuligula																										1	20					1	200		- 1
974 AC-KY7M309Heynde natica									1.		24																							12	-
975 AC-60400009Heunds emitte	1.00				1.12		1.1					1.					1.0			-			÷.,	х.											- 1
¥ 76 AC-4Q4815050Ceckpis daurice																																		1.0	-1
977. AC-GQ40685(Delictore arbitrare					- 6	4.14				1	- 14			÷	10		1.		4.1	-				-	ί.				2	10					- 1
Set TB. AC-GIQUEDERCDelichen disceput												24																						1	- 1
276 AC-IQINEIR/Pripidure hyperartha				1.	1.5		1.		6.4			2.6		6.4				Ξ.			1		14		1.1								• . •		- 1
WIRLAC-IQUIRISIC uncleage orylevense																									• •			• •		۰.					- 1
#81. AC-50225700/Cephalopyrus flamminape	( S	1.14			1.00			-	1.1						-															÷.				1.1	- 1
982 AC-0000700/Periperus ater									1.1																1.1		۰.	• •	1		- 1		* .*	0.5	- 1
9683. AC-HQ228194 Paris rubidivertris		1.14	÷	14.1		1.1	1.143	-77				24	-14				141	11.	1.	-	40	1.	14	41			-	1.1	-	÷.,			**		-
9284. AC-HM0153048, ophophanes dichrous									1.14																				1					2.7	- 1
1285. AC-QQ4E1663(Cyanistee sysmum								-					-											-			- 1								-
286. AC-0849729Panis menticolus																																			
# ET. AC. 60573079 Ramis pandulinus	1.00				1.16		1.1		1.1	-		2.43										6.	1											1.1	- 1
38. AC-HQ825288 Aepthalos concinnus										1																		1.1	- 3		- +	-	+		-
VID AC-CHEP143(little contention					1.11		1.41		2.4	÷.,				1.1		2.5		1.			÷.,				1.5		-		- 4						- 1
9490. AC-KMEP157(Sitta tephyonota																									1.5		-	-7.4					+ 1		- 1
921. AC-KH62146(Sitta frontaña														÷		- 1	1.41				÷.,		140												- 1
SERL AC-SQR2777[Chodrome mutaria									1.					1.										1											
993 AC-8201329/Certhia hodgensi	10				1.11	- 1		40	1.1					1.4		1.1			1.1				1					• . •		1	- 1	1		12	- 1
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90. AC-40/28	US20/Carthia hostgareni		90			0.0		0.0		1.0					1.0		1						1		4.1			1.14	* *	1.0			**	1.1	1
REAC-SQR	E2117[Chodrome mutants			• •		1.1	1		* *	12			1	1	1			1		12					1		•2	1.1	1.1	1.5	2.0		•	10	1
91. AC KHE	7146/18ta frontalio				100			10	1.1			1		1			1.		1.		2.1	1.5			•			1.11	1.1	1.00		0.2	1.1		1
90 AC-KNE	7357/Sitta tephyonota		1	*		1.1	1		*		1.1					1.1				1.1	1		*		1		*	1.1	1	1.11	-			12	1
IR AC CHE	714355tta sadrmiatria		2	5.5				10	* *			1	2.3			• •	1				2.1				• •		•	• •	5.1	1.11	-			1.1	- 1
BE ACHON	852019Aepthelos concinnus				-	1.1	10			. *	1.1	1	1		1		1.00		110	1.1	2.7	1		1.0	1.1				2.1	1.72	2.1		1.1	1.1	2
IT AC-GUS	73379/Ramis genstufinun				100	• •			• •				2.7	1.1			11	1.1	171		1	1.7	1				1	1.1	1.1	1.1	10	1.7	1.1	1.1	21
BL AC-1084	9779/Parut menticolus	G	1	61	1	5 H	¥ 1	I A	Υ.)	. 4	5.8	С. К.	1.1	• •	4	ΥN	1.9.	M V	w	1 M	1	5 1	9	1.4	9.1	11	A. 1	# A.	н (	4.94		r v.	9.8	4.0	Y
(85. AC-0Q4	E1663(Cyanistee sywtue		*		-	1.1	. 1	1.	• •		2.2	. *	0.1		10	5.0	0.00	1.1	6.81		1	1.7	1	1.75	* 1		*	1.72	10	1.0	1	1.5	13	1.1	1
AC-HM	85314(Lophophanes dictivove			- +					+ )	. *	4.1	1	-	-	*	- 1	1.00				2.3				-	6,7		1.1	+ -				2.1		
(B3. AC-HQ3	28194Perus rubidiventris		۰.				2.2	1.5	• •	1.1	-					-									4.1		۰.	н . н.	* .	1	20		4.1	1	-
R2 AC 050	CTOCPeriperus atter		20					12												• •					1.1				•	0.0	100		• •	1.1	1
HL AC-022	\$700/Capitulopynus flammicaps				10.1				•		4.1				. •	• •		• •		• •					1.1		۰.	• •		1.10		1.0	• •	0.5	
80. AC-1017	1592/Culticitage crytonensis						1.1		•			1				•									•	1		• (•)	1	0.00	* 1	. •	• •	1	-
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74. AC-8775	H110 Heynde natica					1.0				1.		1			1		1		-							1			4.7	1.0				1	- 1
T3. AC-MP5	80225(Phyonoprogra fuligale		-		-			1.4		1.		1.4	-		1		141				4.1	1.4	-		20	12	2			1.	- 17			1.1	-11
TI. AC-0Q8	82578Ptysnoprogrie rupetinis											1.4				÷. 1	14	÷.,	1.		1.1	1.	-	1.	4.)	1.		1.1		1.16	1.0		÷.,	1.4	- 1
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9/106. AC-HQ000865PhyRescopus regularities																																				-118
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2 138, AC-7Q175055(Permaturhinus arythroganys			Y	
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#132. AC-5093255817 (Argya watai authi			* * * * * * * <mark>* *</mark> * * *	
#133. AC-RC438041(Turdoktes malcolivs				* * * * * * * * * * * * * * * * * *
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2135. AC-EU6875679-Interceptusia capistrata regriceps			<mark></mark>	
₹1% AC-GQ482236Muscicapa ubinita			<mark>. Y</mark>	
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2143. AC-IF498845(Coppyrhus malebaricus	· · · · · · · · · · · ·		<mark>. Y</mark> <mark>.</mark>	
≥142. AC-JQ174627[Cysemia rubecu/cides			<mark></mark>	
₹143. AC-IQ07559(MiRava sundara			• • • • • • • • • • • • • • •	* * <b>* *</b> * * * * * * * * * * * * * * *
€144. AC-15422343 Muscicapa thalassina	# W L F S 1	TNHKDIGT	<mark></mark>	
✓ 145. AC-IQUSSRQLuccinia meganlynchos			· · · · · · · · · · · · · · · ·	A A A A A A A A A A A A A A A A A A A
₹146. AC-KC789641[Luncimia mattica			<mark>. V</mark> <mark>.</mark>	
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2153. AC-D0R9703Phoenicurus howala	• • • • • • • • • • •	- N H K D I G T	· · · · · · · · · · · · · · · ·	A REPORT OF A REPORT OF A REPORT OF A
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¥146. AC-KCR0641[Loscina sveitsa		. <u>X</u>		. <u>v</u>																									1.1	
w147. AC-80.073100Callope pectoralis		- <del>X</del>		. <b>x</b>			2.2																							11
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#127. AC-0457212050Avia community		· · · · · · · · · · · · · · · · · · ·
#128. AC-JQ175050(Pernatorhinus arythrogenys		
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9/144, AC-8F402340 Municipa thalanina		
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9/148. AC-OCHEP18(Taniger Lyanses		
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#150.AC.JQ074846(Feedule strephate		
2151 AC-6Q40390(Fcedula alticula		
2192.8C-GUD1801Finadala parva		
¥153. AC-D070700[Phoenicurus hontails		· · · · · · · · · · · · · · · · · · ·
9/154. AC-GQ482562[Phoenistanas arythmetican		· · · · · · · · · · · · · · · · · · ·
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¥131.AC-0	Q4DIM Ficedula alticula		and a state of a second state		A R ALL AND A A R ALL	Contraction and the second
2192.86-0	2/1218010Frankula parva			• • • • • • • • • • •		
94153.AC-0	0070700(Phoenicuna heritalia					1.4.4.4.4.4.4.4.4.4.4
9/154.AC-0	Q402362[Promissanae wythremation					1. 1. 1. 1. 1. 1. 1. 1. 1.
\$135 AC-6	8372020Phoenicums phoenicums					
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M10 M/1	ACCURATE A CONTRACTOR					
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10 July 10 1	ACCELER PARTY CONTRACTOR			2000000000000		
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C108-147-1	WORWOLL MICHIER BURNESS					
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10 100 AG 1	Accession in the second s					
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210 AL-5	Contraction of the second se					10.535.507.50 <u>5</u> .5
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918.AC-0	Concernance and the second					
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W143 1/ 1	Criteria a des della contra d					
141 AC.1	Contraction of the second second					
GULL AC.	Exiting Belancing the leaders to					
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14 140 AC.1	Contract of the second second					
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¥113 AC.8	OUT THE Property and Property in	0.000110.000				
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	constant of a constant in the second second				<ul> <li>A second s</li></ul>	
#105.AC-6						[#]
¥105 AC-6	W Contractory and			V		121

- the second s									~~~			_					· · ·									1.0				
-GUSTZL205yAvia communits								1.1		1.0				1.0			. 1				1				1.14					
JQ279850/Pernatorhinus wythrogenys	1.0		1.			1.1	141	1.1			÷.,				÷.,			1		14.1	11	1	÷.,	140	4.14	1.1	1.67			
- MR009001, Laticella Inurvezià							123													1.5	1.1	141			1.1					
-JQ175707(Patternarm ruficeps	1.5	1.1	16 4				123	1.1	40		1.1	S				2.	2.2			120		11	11.		2.	13		1.2	2.	
- IQ070907[Akopple protokog/halls								1.1													i i				1.1					
AB-QSS8E7(Argya uartai aartai	1.0		1.4					1.10				3 J						-			i i		2.4	140	1.1	134	12			
-KCA080A1/Turdodes malcolmi							640	1.6							- 1						1.1	40			1.14					
- NEOE3803/Trochalopharon arythrocephalum woodi	1.4		4.4				14.1				1.1	1. 1	1.5		1.1			2		4.1				14.1	4.14	10	1.			
-EU4470479-ieterophesia capistrata regriceps	1.50				1.5			1.1							1.1						1			191	2.54		2.42	1.1	4.4	
- 6Q482226(Muncicape obvice	1.0								-									- 1		-										
-IF4989583,exthes lutes								i i													1.1				15				10	1
GQ602256/Monticape statuarica	1.						100				2.1				- 1	1	1.1					1				101	1.00			
-GUS709879Muscicage striets	1.			×																				1			1.4			
MPS80321(Cercohrohai: gelectore:	1.40		10.1	12			1.	1.1				÷.,				÷.	1.1			14	1.1			241	1.1	10	1.01			
-IF4989459Copcychus malabaricus			10.04					1.1												14.5					1.1	134		1.4		
JQ574627[Cystrein ruberuktides		÷.,	4. 4				1.												÷.,			4		1.00		1.0	1.0	÷.,		
- IQ\$75559(Millious substate								1.1													1.1			1.0						
-EF422345 [Muncicage thalassina	1.5		1.1				110	1.10			- 1	- A - A	1.1		2.1	3		- 1		1.0	i i	1		1	1.1	1.5	1.00			
HQ0752HQLuccinia meganhymches								1.1										• :			1.1			1.4.1	1.1					
-KC789641(Luncinia noncica	1.50		14 4				1/20	1.1	40			1 a 🔒	1.0			1.	•			140		Q.,		-	1.14	111	1.		1.1	
-#URT3T#B(Calliope pectoralis	1.0							1.1													i i			1.0						
-GQ60758(Tarsiger Uyanana																		- 1		1				-	2.1	1.1	-			
- IQ176404[Tarsiger chrysaeus	1.00	1.1					Ċ.	1.1							- 1						1.1	14		1.0	4.14			1.1		
JQS74846(Final-Jarstrophiate	1.0	1.14	10.1					1.1			2.1	0.0				1				1	i i			1.0	1.1	104	1.00			
-GQ4[389]Foedula alticulta					1.1			1.1			1.1				1.1						i i			1.0	1.11		1.2	1.1		
-GUIZSBRIJFondula parva			1. 1				181	1.1	40	1.47		÷ .	1.0			1	÷. +			19.3	1.1	1.		191	2.4	1.1	1.00	÷. –	1.1	
-D0070700[Phoenicuna: heintails			10.0					1.1												14.5					1.1	101			1.0	
- GQ462362(Phoenistanae erythmenetiae	1.		1. 1				18.	1.1												4	1.1	4		5.47	1.1	1.1				
-66372039Photenicurus photenicurus																									1.1					
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9 156 AC-GOBUSTNPhoencung extringentrus																		. 1													1
¥157. AC-0Q462571(Montrole seattle					2.4			1. 1	2		4.1																				
9/156-AC-IQ0754258Apropolar talifacture												140						. v													
9/159. AC-6Q405235ascola maurus				10.0		1.41					÷.,																1.14				
			* *						*		÷.,																				
VIDD. AC-IQ076282(Seconda Terreux				1.1		1.0.1		1. 1			÷.,	1.						. V		а.						127					
9/362 AC-DQ8R3479(Delaythe alborright						1.0						1.		1.0	• •	14.5	1	. Y													
≥ 163 AC-68571994(Cenanthe senanthe						1.4				1.5		120						. 4													
9/164. AC-HR40488703Cenanthe lugens				1.1		1	+ -	1.4		÷		240		+ 1	÷.,			- 1													
2165 AC-MP795487(Detertive firschil		1 - 1		2.1		1.41				1.5				1477		1274	1.		1.1		2				÷ .	2.					
¥106. AC-GU371993(Denasthe pleschanka	-					1.0		÷		114		÷4.,						. 1													
167. AC-DQSSN0 Oenarthis santhoprymos																				ы.			÷.,								
¥ 188. AC-69252229(Denanthe desets)		•	+ -															. *													
9/100. AC-IF408002(Cenanthe isobellina		• •								÷		2.2	1.1				1	. X		÷.					2.4	160	1.1			1.1	
C170. AC-(F3L5002)Zoothers downe						1.00						1.	÷.,					, v													
2171. AC-0Q482880[Turshes viscostrue						1.00			*								1	. V	1.1				1.		2.4					1.14	
9.172 AC-68/972340(Funitum Record		• • • •				1.00				• • •		1.													2.4					1.1	
9/171: AC-MR052687/Tunka menute						1.0											. 1	. V								1.2					
W174. AC-6Q483870[Turshis rulhcolds		• • •			1.9	1.0.5	•			÷. • ;	•							. X													
92175. AC-KCK00008[Sturnus centra	1.1			1.1			÷ =					640				14.1		÷.+	÷. +	2		1.1	A., 1	1.40	2.4		5.5	1.1	- A.	4.14	1.4
@176.AC-E0525542[Rumus pagaderum	V.	T.F.	1.14	R W	1.1	5	ΤN	H.K	D	1.6	τ.		2.4					. v													
2177. AC-IQI76331/Stumus melabaricus		+	+ +	1.14			+ +																					<mark>-</mark>			14
¥178 AC-AVM0199Aoxidetheires tristis			1.5		. 7. 1	1.0	= (m)	1.1		- ( - )								. ¥													118
12 178. AC-EF4M196(Acrohithanas Fusicus	Y.	7 1	1 N	# W	1.1	1	ΤN	нк	D	1 6	τ.	1.			÷.,			. ¥									- 14	2.4			1.0
2100. AC-KM42077(Dicaeum erythninforchis						1.00	1.1			1.1	Ť .	1.1						. *													
9 181. AC-AN-629095(Authopyge siperaja siperaja						1.0				1.1				- 1	έ.,			. V		а.						10	- 34			4.10	
€182. AC-ABB41182[Pruvelle collari)	- P																	, V													
≥103. AC-6Q482565(Prunella himalejana											- 1	1.4	11.					- Y			1				1. 1					1.1	
21M. AC-DQRC90(Prunella fulvescena		• -								1.2	۰.							. Y								10					
2185 AC-6Q82560(Pranelle atropularie										÷. •	•		i i					. V						14		14				1.1	
9/386. AC-IP9570259Actocite cineres					1.1	1.0				1.1								. Y													
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Allama	D	0.0	1 V.	N.V	1.1	1.1	AH	A.	F 11	MI		F. M	-¥ . I	4.9	1.1	1.1	6.6	1	0 N	W.	t W	P 1	M	1.0	A. 1	P (	M.	4.3		E. M	N. 1	N.
#156 AC-60482576/hoerkuns esthogethis			Υ		Υ.																											.1
#157. AC-GQ4621711Monticols sautilis			۷.,		Υ.						1.1																1.					1
¥158, AC-IQUIMINGAMENTE SATERIAS			Υ.,		χ.																											
19 15R. AC-GQ480623ESexcets masaya		4.4	¥		Χ.	1		÷.,	1.1	1.14				1.1																	12.3	11
€ 100. AC+ICO701005 avicula caprata			Υ		Υ.																											11
9 161. AC-JQI/MIRI/Seconds formus			٧		х.		1.1																		1.							48
W162 AC-DQ80479(Devanthe alborright					Χ.,																											41
2103. AC-60370004(Ownamths senanthis	1.00	1.1	۷.		Χ				1.1				10			1.		1.	1.1								14					41
97104. AC-HM0408203/Genanthe lugens					х.,																											41
(₹165. AC-N#795487(Ownantha firmchi					х.		A	14.5			14.1			÷.,		1.1		1.4	1.1		14				14.1	2.	14				141	411
€ 106. AC-003/1995(Cenanthe preschanka			۷.,		× .									1.1					1.1									1.1				41
267. AC-II/255040 Cenantifie sandhopnymma					х.																								1.			- 11
¥388 AC-49252229(Cesarithe desets			٧		χ.,																											11
¥160. AC-IF408802/Ownerthe sabelline	1.00	- 14	۲		Υ.					1.1	1.0		1	6.00				( in .			1.				1.	÷	241					41
170. AC-07515002[Zoothera daume					х.																							1.1				41
2171. AC-GQ482001 Turchin viscourses	1.0	1.1			Y								-	1.0	÷.,						1.					1.5	1.					11
112.AC-00212145(Fundus Recus					Υ.																0.0											41
92173. AC-MIGE087/Fuebus menule					х.			14.1						1.14	2.1										1		141	1.1				411
92178. AC-6Q4630767 under rufkcellts					Υ													0.00														41
175. AC-6CK30038[Bumue contro	- 00		Υ		χ	1.						1.1	2.5		10	1.1		6.40	1.1	1.0			1.0		14.1		140	1.1				48
#176. AC-E0525542[Rumus pagodarum			<b>X</b>		<u>8</u>														$\mathbf{c} \neq \mathbf{c}$													40
9/177. AC-IQD/X81(Stumus maiduarious		1.14	¥	÷ .	χ.			141			145	-14				1.45		1.4		0.00	24				147		1.0		1.00		180	- 19
SETTE AC-AVR6196[Aciduthetes triatis			¥		Χ.								1																			18
2/179. AC-EF4042963Aoridotheres functus			۷.,		<b>X</b> -															-							1.00		-			- 14
¥380 AC-KH42K37(Dicatum eythenhynchos			٧		χ.,														6.1													11
¥181. AC-59-629095(Authory) ya siyanga niyanga	100		¥		Χ.	1	1.1				0.00		20	1.1	10	1.11		1.			1.1			• •	14.1		10					41
✓ 182. AC-ABI433302Prunello caltaria			8 a 1																										14.7			41
1811. AC-GQ482565(Prunalis himalayana			N	1.1				1.00				1.1		1.1	43				2.4						18.1		1	1.4				411
32384. AC-6Q482563(Frundia fulvescen)			¥		Υ		1.1	1.				- 1													14.1			1.1				41
92185. AC-GQ602560(Frunelia atroputaria			٧		х.			1.			1.4	- 14	-	1.14			4								-		1		1.0			41
VIIII. AC-IP957023(Motacifix coveres			٧		χ.																											J
feed 100 mm and and rank rank		and in	én 21/	-	-	-	215		275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	100

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9156 AC-SOBUTNPhilenouns extingentrus															1																				1	
¥157. AC-00682571/Montrolle sauthle																																			1	
9/156. AC-10075425Movements toleartus																																				
9/158. AC-6Q408285astrate measure					1.1																															
✓ 16b. AC+IQ0 MUB0(Sevicirile caprate																																				
V181. AC-IQ078181:Seconda fermera							1.1											ς.					12					1					12			
¥162 AC-DQR0429(Delanthe albohiger																																				
9/163: AC-GUS71004(Cenanthe senanthe																																		41		
9104. AC-HM048203Oenanthe lugens					1.1																		12								1					
2165. AC-ME795487(Oursethe finschil				2.4			14.75																											Ξ.	11	
¥108. AC-GU371993(Desasthe pleachanka																																			- 11	
167. AC-DQSSD40(Oananthis santhoprymma																																			- 11	
₽ 108. AC-69252239Oexonthe desetti																2.2																			11	
9/300. AC-IF408003/Cenumbe isabeline		÷.,	1.	1.1	11.	24															22		14					14			240				-11	
#170 AC-(P315002)Zoothera davrea															Α.																				11	
9 171. AC-6Q48380(Tursha viscivetrue	1.1			÷ .	10.1		14.5								A.				- 67										1			10		1.1	- 11	
9172.4C-60572345(Fundua Reput				1.1											Χ.																					
9/171: AC-MR052687/Tuntus merule	1.1			÷ .	1.1										A.																				- 11	
SETTE AC-EQUERTETUNINE INFERIE				1.1																	1.1						1.4									
92175. AC-KCK00008[Sturnus centra	1.1		5.40		11.	14	14.14				1.1					1					C.								20		1		14	41	1.16	
9/176. AC-EUS25542[Rumul pogodarum			120	1.1	1.1												60														1.0			10	- 117	
9 177. AC-IQI763015tumus malidiaricus								1.4									1.00			-		1.												÷., 1	- 18	
✓ 178 .4C-AVM0396(Arridomeres testis																																			-117	
2179. AC-EF464E96(Acristetheres Functus					1.1			1.							ч.			÷.,	1.					2.5									1.			
2185 AC-KHA2077(Dicesum erythnishynchos																																		1	-11	
97181. AC-AD-02005(Authopyge signinge viprenje	- 1 A			1.1	12.5	1.6				14									- 6	5	14	1.		- 1					4.1	6.	1			4.1	11	
€182.AC-AB643152[Pruvelle called]							141.1																												11	
9/103. AC-6Q482565(Prunelle himeleyette				i a	1.1											1		10			11		10				1.4	14				10.0	24	1	- 11	
9384. AC-6Q482560(Prunella full-escena																																		1	- 11	
9/185. AC-6Q482560(Prunella atropularia			1	÷ 4	1.1					14																			ε.					10	- 11	
9/186 AC-199570258Actocits cineres																																			18	
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Savet 151 (* 452,453 (152,780)	2.00	m-ch	14/3	20			11	ine.	nlete	6																										

Appendix	F
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9-156 AC-60	OBC/75/Phoencoms ev/thingestrus									1																								1	
¥157.AC-00	04521711Montecola sasattike																						÷.,												
¥136.AC-IQ	0754256Montecelle selfanius																																		
¥150, AC-00	040523 fancala maurun									÷.														1							1.1		1.1		
¥100 JC-10	076380(Savicsis Cignets																																		
101.AC-10	0761812Seccola Nerreux																											Q.,							
¥162 AC-00	200479/Delanthe albohiger									1												1.												-	
£161. AC-61	US70904(Cananthe senanthe									4														4									1.4		
9110.10-14	W5488703Oenanthe lugens					1.1				1	1.7								ι.					η.		1.1							1. 11		
216 AC-M	F7954E7(Ownersthe finschü							14.7		α.													1.1	۰.				100					1.		
¥108. AC-01	071999(Denanthe plescharika								22	1					ι.									S.									1.	-1	
1117. AC-DC	255040(Ownarethe sandhoprymme					1.1								-					÷					1									2.4	-	
¥108. AC-69	032239(Denanthe desetti																																	- 1	
9/100.AC-IN	Kill012)/Demanthe ivabelline	1.1	1.0			1.1			÷.,		6.5	1.		-			1.1		2.1						÷.,					1.1			1.4	- 1	
WITH AC IF	313802j2oothen deurse									S					1.5													14.5							
¥171.AC-80	Q482880[Tursles visciostrue					1.1				а.	63				1.5							1.0		1				140			1.1		100	-	
£172.4C-64	/1/2340(Funkus Herout																																		
WITLAC-M	K362687)Tundus menute					1.5				÷.						1.4			× .			1.6		50	1.1								6.40	- 1	
Sel116. AC-00	2462877ETurdus ruficariles									1												1.00									1.1.1			4	
97175.AC-K0	A0000856amus centra		14.1			1.1	0.4		1.14		1.5	1.4				1.4	1	1.		41	- 14	1.4		1	41.6	1.	a. (	14.1		1.0	1.14	1.1.1	1.11		
918 AC-R	(525542)Rumul popoderum									1		1.4												÷.									1.14		
#117. AC-10	076304[Stumus malabaricus													-			-																1.11	-	A
¥118.4(-4)	mildigiti (Acridotheres tristis									1																1							1.1		
17B. AC-18	454196)Acristotheres Puscus	1.0				1.1				1	1			-								. • :		1							1.1		1.11	-	1
¥100.4C-40	442037Diceeum erythrenhynches									1				-																			6.76	- 1	
WILL AC M	H029095(Authorpyga sipanga sipanga				• •	1.1			• •	14	÷			-					÷ -		- 1				1.	1.				1.0	1.10		6.4	-	
€18.4C-M	B43352Pruvelle collect																							0							1.0				
94111. AC-60	Q482565(Phurwille himwileyane				•	6.7			0.6	4					1.1				2.4			1.											6.40	-	
¥.1M. AC-00	QRISKI(Punits full-eden)									э.																							1.1	-	
9185.AC-00	Q682560(Pranellie atropularie					1.1		14.1		1	2.5	0.00		Χ.	1.5									1			11.			14.3	1.10	1.1	1.11	-	
SKIM AC-IN	9570259Motacilla cinenta																																	1	
<b>1</b>									14	-		-		-	-	-	-																	121	
Shell	201 901,602,603 (201/380)	2 ar	in-ef	1.26	20			. 28	ine	ade	bel.																								

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9/156 AC-IQ0/5425/Monitoria telefox				1 1 1 1 1 1 1 1 1		1.1.1
9/158. AC-5Q405285axxsla mausur						1.4.4
√160. AC+IQ0703005exicite caprete						1.1.1
2161 AC-/Q076181;Seconda fierreux						1.4.4
9/162 AC-DQ883479(Decantrie alborright						1.1.1
92163: AC+6U571054)Cananthe senanthe						1.1.1
9/106. AC-HH4040270/Denanthe lugens		etale e a a a state e		<ul> <li>a   a   a   a   a   a  </li> </ul>		1.0.0
2165. AC-ME705487(Cenenthe Snochi						1.4.4
9106 AC-GUT/1993/Cenanthe preschanka						21272
№ 167. AC-DQ55040(Oenanthe santhopnymme						1000
¥108. AC-KP152229(Qelanthe deleti)				· · · · · · · · · · · · ·		
9/100. AC-IF408002/Clenarithe isabelline						1.00
€170.AC-07515807[[toothes dayna						1.1.1
9/171. AC-6Q482883(Turslan vinciverus						1.4.4
9/172 AC-60/9/2145/Fundua Reput						1.1.1
9/171 AC-MIG62607/Tuntus menute						1.1.1
W176 AC-6Q60570 Tunker Infrontis						
9/175. AC-KCK0008(Sturrus centra						1
9/195. AC-E0525542[Plumut pagedarum				a (		1.0.0
9 177. AC-IQD/6301/Stomus melabarious				·		12.4
#178 AC-AVM0194[Anidotheies testis						
2179. AC-EF484196(Acristetheres functus						
≥ 185. AC+O442677(Dicanum mythrarhynchos						1.1.1
9/181. AC-69-029095(Authoryge signings interest						· · · ·
¥182 AC-ABIK[[0]Purelle cellet:						
9/181. AC-60482569Prunelly himeleyetse						1.4.4
2184 AC-DQ482563(hundle full-scena)						
9/185 AC-6Q480580(Frunklik atropularie						1.1.1
SF 186. AC-19957025(Motocilla cinemta						
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Saut 251 (5 782 782 783 (552/181)	Parameter M/00	215 term related				
2 Name	- A R R R R R R R		1 1 F 6 A W A 6 M	1074151	1 1 # A E L G Q # G A	110
≪Nama ≪187. AC-01/5/1803Mascille Nave	• • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	11764W46M	1 6 7 A 1 5 L		116
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e Name e 187 AC-01571983Motocile Sea e 188 AC-00482203Motocile Sea 9 189 AC-0794539Motocile sile		L Y	11764WAGM	1674151 V		116
2 Name 2125 AC-0355393304textile first 2128 AC-0598220304textile chusch 2128 AC-0598220304textile chusch 2128 AC-05982104textine gestienen		· · · · · · · · · · · · · · · · · · ·	11464W46M	1 6 7 A 1 5 L V V V V		116
2 Name 2 107 Ac - 01/15/19/10/stocks files 2 108 Ac - 02/05/19/10/stocks files 2 108 Ac - 02/05/19/10/stocks site 2 108 Ac - 02/05/19/10/stocks get 2 1			L 1 + 6 A W A G M	1 6 7 A 1 5 L	1 1 8 4 1 1 6 0 4 6 4	116
2 Name 2 10 - Ac - 0.0513033/Mitocolle Stat 2 10 - Ac - 0.0012203/Mitocolle sites 2 10 - Ac - 0.0012303/Mitocolle sites 2 10 - Ac - 0.00123143/Anthone gentlements 2 10 - Ac - 0.00123143/Anthone gentlements 2 10 - Ac - 0.00157123/Anthone production 2 10 - Ac - 0.00157123/Anthone production		L Y	1 1 F 6 A W A 6 M	1674151	1 1 8 8 1 1 6 9 8 6 8	116
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2 Name 2 10 - Ar, - 0.171303/Mitscille East 2 10 - Ar, - 0.01220/Mitscille State 2 10 - Ar, - 0.02220/Mitscille State 2 10 - Ar, - 0.02210/Mitscille State 2 10 - Ar, - 0.02210/Mitscille State 2 10 - Ar, - 0.02310/Mitscille State 2 10 - 0.02310/Mitscille State 2 10 - 0.02310/Mitscille State 2 10 - 0.02310/Mitscille State 2 10		L Y	1 1 1 G A W A G M		11841162964	1.1.6
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2 Name 2 Han. AC - 00573833 [Addituality Stand 2 Han. AC - 00573833 [Addituality Stand 2 Han. AC - 0052203[Addituality addituality 2 Han. AC - 0052314[Addituality agrillowed) 2 Han. AC - 0052314[Addituality agrillowed] 2 Han. AC - 00523314[Addituality agrillowed] 2 Han. AC - 00543314[Addituality agrillowed] 2 Han. AC - 00543314[Addituality agrillowed] 2 Han. AC - 0054334[Addituality agrillowed]			1 1 F G A W A G M		1 1 8 4 1 1 6 0 8 6 4	
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9156 AC-SQREEPN/Promiums ey/Progethus																																				
#157. AC-0Q482571/Monticole section																																				
#156. AC-IQU/SE285Ar/books talkarius																								41		1.6	1			14.1	- 1	1			1.	
#158. AC-6Q408285asirsta masava										÷.,					1											1			1.1			12				
2160. AC-IQUINUNDSexicile caprate																										1		4.5	1.14				41	1.1	2.4	
7.161. AC-/Q376181;Seconda fierrava				1.1																						1.5		4.5					4	2.4		2
162 AC-DOROV/9/Devantive alborright																																				
#163: AC-GUS71004(Cananthe senanthe					4.1																							20		1.0	2.4	1.5		200	1.0	1
#104. AC-HM040270/Denanthe lugens	÷ .			1.0	1.					1															1	1		٠.		14	- 1	1.	÷.,	1.1		1
2165. AC-MP705487(Detentive Smith)										1					1												1				1.	1.5	1.1	1.1		14
108. AC-GUS71993(Cenanthe plexchanka					۰.					÷.,																				1.0	2.12	1.		1.14	1	1
7 167. AC-DQ55040(Ownanthie santhaptymna																																				
108. AC-RP252229(Oexanthe desetti																										1.4						1.		24	1.1	
F160. AC-IF808003(Cenarithe isabelline				1.1	1																									2.2		19	1			2
E170. AC-69315802g2xx0vera dauma																																1				
A171. AC-60483883 Turske visstores								10		1														10												12
172 AC-6002145/Fundus ikeput																												45			÷.,			1.1	2.0	14
CLT1: AC-MROB2687/Turnlus menule																														1.		1.		1.1		14
TTE AC-GOESISTR Turdus rufficilitie																																				
2175 AC-ECEDUBISturnue centre							12				24																			121		14		1.1	1.1	
218. AC-E0525562[Rumut pagedatum					۰.																		1.4	-	2	1.4		4.5				1.0		1.1		1
1177. AC-IQDENI[Stamus melabarious					2.																					12				1.	21.	1.	1.1	20	2	12
TTE AC-AVMEDMIAmidutheires textis																																				
2179. AC-EF484196(Acrostethenes Function	2.			1				11																									-			
3105. AC-K0442007[Dicanum mythrarhynchos																											1	66			ς.,	16		87	24	2
181. AC-AD-020053Authoryge signings signerein										1										20						1.		έ.		1.1	4.4		-	14	14	
E182 AC-ABREERSPrundle cellent			÷.,					1																					22							
K183, AC-6Q482565(Prunelle himsleyetse			÷.,		1																			20			13		1			1.2				12
184. AC-EQ480563(Prundle full-escena																																				-
E185. AC-GQ682560(Frunetia atropularis	84		1																										1			1				
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SELET. AC-GUD719839Antecilla Rava			Υ																							. 1
≥188. AC-6Q48220[[Meter/Herbrack	N		Y																					1.		. 1
94109. AC-KY754508/Motacilla alba	N		¥ .																					222		1
92100. AC-GQ481343(Anthus gedleentii)	X	112				12.5			1.1			14.74									1.1	10	1.14			
₹193. AC-07252187(Arthys campethis	N					1.1																1.1		1.1		
@192. AC-03/01732/Arthur protonon	N		¥																			1.2		2.47		S
€193.AC-6Q483349(Avithus hodgson)			¥																							
92104. AC-01/07L200/Anthur centinue	V		۷										(a.)							14	1.1	1. 10		1.4		24
¥195. AC-GQ481365(Anthus spinoletta	N		٧						A. 16																	
97105. AC-SQ4813583Anthus rubencens	V		Y	1.1																26		1.1		1	1.1	- H
92197. AC-GUSTL754(Bowdycilla gamalus			¥																					1.		
¥198. AC-89252196≱typocolius empeknus			¥																							
2 199. AC-MCR2811Finglia codebc	<b>X</b>		٧																			6.6				- U
200. AC-GUS75404/Fongita munithingita	N		Y							1.1										1		1.1		1.		31
₩203. AC-08/970829/Coccuthrauetes encoethrauetes	· · · · ·							1.11														1.10	1.1	140		21
≥202. AC-GQ481529(Carpenianus rubicita	· · · · ·					1.0			1.1				100							1		1.10	1.1			
205 AC-R0877NE)Carpodacos thuro	1 N																							1.		- A
204. AC-GQ462008[Exemplathia mongolica	A		¥			6.0										4.4				1.	1.1		4.14	1.01		31
32305 AC-0Q462050(Leucantiste nemonicala	A A A Y		¥		1.1.1		1.1		1.1												1.14	1.			1.1	14
206. AC-GQ482049[Laucenticita Interdit	V	a	Y					14	1.11			6.4										1.1			2.4	6 H
201. AC-FI405159/Rhodowice obsidets	· · · · · · · · · · · · · · · · · · ·		Υ																							6 H
#208. AC-EQ481479[Lineria filestrothis	1 N		Y						1.1																1.14	24 H
208.4C-GQ481459Linaria cannativia	<b>.</b>		¥ .				1.1																	1.0		S. 1
230. AC-00510588.esia-curvicentra	1 N	1.1.1				1.0							1.1									1.1				
SE211 AC-MC82999(Carduels carduels	N		٧	1.11																				1.4		. 1
212. AC-GQ60520(Serinue pueblus							1.1		1.1		1.1		14.0							1		1.1		1.		
233. AC-OQ401485(Spinut spinut	<b>.</b> .							1.1				4.14										1.27				- 11
2314. AC-IQS74THEEnitieros malanocephala	1 N	A	Y			1.1			1.10																	- H
W215 AC-RCROBILISEMENTA Environment	N		¥																							- A
≥ 216. AC-GUS71867/Enstantas calendra	ALC: N		¥	1.11		1.0	1.1		4.4				14.14									1.1		147	1.14	
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9 187. AC-GLO7E993(MiteoRe Reve						-1
€ 188. AC-6Q48200[]Meterille obraste						
9/109 AC-KY75450094x8xx84 atta						
9:100. AC-6Q481343[Anthus gedleentiin						
W101. AC-10/252187(Arthus campetitis			4			
9/102. AC-01070732(Arthus protonos		interne <mark>e</mark> statutet	1 . <mark>.</mark>			
¥193.AC-GQ40340(Anthus hodgson)						
9:104. AC-03/07L230 (Anthux carvinue			1			-
97195. AC-6Q481365(Anthus spinishtta						
¥196. AC-SQ481398(Anthus rubescens						
92 197. AC-GUSTE754(Bondycilla ganulus)			4			
≥ 196. AC-8725219694ypocolius arrgalinus						
9 109 AC-MR282111Fringite codebc						- 11
₽ 200. AC-68575454¥/singita munkhingita						
₹ 201. AC-60/57(829)Coccothinuttes executivautes		CALLS A CONTRACTOR		PERMIT AND A PERMIT AND A		
2202 AC-6Q481529(Cerpenhense tubicite						- 11
283 AC-BBA7783 Cagodacus thura			2 - <b>2</b> - <b>1</b>			- 11
9/204. AC-GQ462008[Enmoprahia mongolica		·····				- 11
#205 AC-6Q462050[Leucodicte inemonicala						- 11
92306. AC-GQ802049 Laurenticha Isramitti						- 11
9 207. AC-FI405335EPhodospica obsiteta						
206. AC-GQ481479[Lineria flavrostris			a - a - a			- 11
92.308. AC-GQ483455[Learla caveabina						- 11
230. AC-GUID1938.exie nurvinette						- 26
#211.AC-M0282999[Carduels: carduels	1.0.0.0.0.0.0.0.0.0.0	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		A. T. T. T. J. J. M. A. T. T. T. J. J.		- 111
212. AC-6Q462639(Serinus punilus	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CACHER A DOMESTICAL			• • • • • • • • • • • • • • •	- 14
9233. AC-6Q40480(Spinut spinut		A REAL PROPERTY.				- 110
9/234. AC-IQSTRTN(Entheras malanoosphala		Carlana a si si si si				- (R
215 AC-KCKBILHENDerits brandings		initia de la calacia		A A A A A A A A A A A A A A A	· · · · · · · · · · · · · · · · · · ·	2
9/216. AC-01/571807(Embarios calamitie					a state a state state a	4
2 TT. AC-IRIBITIDE effects functs			al - 14 - 14		atalata a ala atalata a	18
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187. AC-GUO7D903Mittacilla flava																																				
E 188. AC-GQ482201(Meteorite extension					1					1																										
K188. AC-KY754508/Motecille albox					÷.																												1.			
5100. AC-GQ481343(Anthus gedlevativ					1				24	1	2.5				1		- 1	1.4			1	1			10	1.1			1.0		1				44	
F181. AC-KP2521873Anthya campestris										1					÷ .,				а.,							1.1							14		14	
E102. AC-GUS2S712(Anthus pratamin					1	4.14				1									27.			- 4		1.4		1.1	-				1		14		44	
193. AC-GQ481349(Anthus hedgeon)					1.					1				٧	1.4				1.4																44	
194. AC-08/07L290 (Anthur catvinue			1.0	1.	1.4			120		1			1	а.	1.14	8		1.			÷.,			1.	-			-12	1.				14		44	
F195. AC-GQ481365(Anthus spinoletta							1																												44	
196. AC-GQ481358(Anthus rubecters						4.14				1	100											1		1.	10.0	1.1							1	100	44	
8 197. AC-GUSTL754@embycilla gamalus					-																												1.		44	
198. AC-8725219694ypocolius ampalmus																		0.															1.		14	
199. AC-MQ82811 Fringilia codebic															1.4																				44	
200. AC-020754049 singlifs munkthing its															1																	1.0	11		44	
201. AC-60575829[Coccutivautes coccutivautes																										1.1						4.14			44	
202. AC-5Q481529/Carpentenae tubicita		8.5					1				10					10					10				10						1	1.1				
255. AC-EU847705(Carpedocus thans																												1.1					1.00		44	
204. AC-GQ462008(Exemplate roomgelice						2.1			1.1		20				1. 11											1.10				1.14					44	
F205 AC-0Q482153(Leucarticte nemoricola					1.4	÷.,				1																										
206. AC-GQRIDDR9[Laucentichs brandti						1.0				÷.							- 1							1.6	10.1		80			1.1		÷.,			44	
C207. AC-F38053399Rhodowate obsalete																																1.			11	
206. AC-GQ481479[Linaria file.trostins					- 4	1.5					80				1.1											1.1	•			1.1					44	
208. AC-GQ481455[Leania canviationa																												1.14					1		44	
230. AC-GUID1958 Junie runnineetre							1.				10																								11	
F211, AC-MC82999)Carduelic carduelic																								1.1		1.1					÷.		1		44	
212. AC-GQ482830[Savinus punillus					1					1		- 11			0						•							- 14			1	10	1.0		-141	
233. AC-6Q40495(Sprina spirial					1				1.1	1																	41								14	
C254. AC-IQST4T76[Eniterza Instanzosphala										1	10				1			1.4							10.0											ł
215 AC-KCKRELEHenbergs brunnings					1													1.0										+			÷		14		44	
216. AC-00571807(Instance calendra					1	41.4	14	4.5		1	40				1								10	1.1	10				4		1		14	20		
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9:100 AC-00	ARTING ANTHON OF A CONTRACTOR																																			1.1	
¥101. AC-10	2521870Arthus campethis																												1.4	10		1.		1.0		1.14	
¥102.AC-01	EDC732(Arthur protection					2.2					1.2									0							1			÷.,	Ξ.	123		1.0	20	1.4	
£193.AC-60	2463349(Anthus hodgson)									÷.,																										2.5	
9104. AC-01	87L250 Anthur can ince				1					1.	. 6			1	1.1				1.1	14					1.									1.0		4.14	
¥195. AC-60	2483.3655Anthus spinsktta																				1.1															4.4	
¥106.AC-00	ARTISE Anthus rubescens																									ι.,		22.						1.0	1.0	1.1	
92197. AC-IR	671754(Bondycilla ganulut																													+					+ -		
₹198. AC-49	20219694yposolius arrgalmus																												1.4	+		100		1.4	-		
9-108-AC-M	Q82111FingRe codets									1					10					1					1		1.4		1.0	•				1.07		4.1.0	
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¥202 AC-80	(481579)Carpenhenas tubacilla					1.1										1.1				14					14	2	0.1			10	1.1				100		
¥38 AC40	847705 (Carpodacus thura																								14		e e		1.5	1		1.	• •	1.9			
9.204. AC-02	362000 Lorropoaloia mongolica										1.6					1.5					4.14				1.	10	÷., ÷				1.1				1.	4.14	
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9-206. AC-00	202000[Laucenticita Internetti				160	1.1														68					140		1.4		1.1					1.0		1.1	
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¥286.AC-60	(481479)Linaria filevizativa					2.1										÷.,					4.15					÷.,										-	
20-24.805.90	(48)455(Leona cannabina															1.3																					
¥210. AC-61	AD12588.exe curvicente				14									1.	10					20					14.1		1.0		1.5				• . •	1.00		5.0	116
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¥212.AC-00	3462630(Serinus punitus								1	1.1	- 11	-			1.0										1.0									1.4		4.9	14
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# 206. AC-GQ4820400 Leucondriche Israndhi		
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2.28 AC-OQ80.05(Linero canadore	• • • • • • • • • • • • • • • • • • •	a state a state state state
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212. AC-GQ40300(Serins puellus		
2213. AC-6Q40185(Sprius spinus		
#294. AC-JQS74776Emberga malamonghala	••••••••••••••••••••••••••••••••••••••	
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226. AC-SQ481805(Emberge rutile						÷.,					1.			÷												÷										1.				-					11	4
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229. AC-IPRSN28/Factor muniterios																					ε.																		1							4
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¥286. AC-08	01907 Emberge talendre																																	۰.	
WEIT ACHIN	HIL NUE INdexica fucata																																		
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★ 307, AC-41	according to sporters				1.1.1.1.1.1.1.1			
₹20E.AC-Q	Q483479[Litaria flaviositiis							
₹209.AC-6	Q683455(Linaria carenabina							1.1.2.2
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¥212.AC-6	Q482630(Serimus punillus							
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¥ 214. AC-10	07477N/Emberge malanocephale							4. 0. 4. 0.
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236 AC-0	US71907Emberga talendra					1.120		
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4.225.AC-0	Configuration and a factorial					1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		
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€227, 4C+M	R282M2Protection	1, m 1, m 1, m 1, m		1.2.2.2.1.2.2	1.00.0.00.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**************************************	
# 228. AC-M	F7673D4(Passer misabriterus					· · · · · · · · · ·	101011100000	(* * * * *)
728.AC-IP	957028/Patter montanut		SCHOOL & BUILDER	COC # 14 (# 14 0)	CONTRACTOR OF 1	and a second second second	1.1.1.1.1.1.1.1.1.1.1.1	10110-014
₹230.AC-Q	Q482355(Patronia patronia	1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	1.1.1.1.1.1.1.1.1	CH. (404-16) #11	CALIFORNIA DA	A. A. M. M. A. A. M. A.	1.1.1.1.1.1.1.1.1.1	10.00
₹701.AC-FI	#1531.5(Carpropize bracky docty/a	ALC: N. M. M. M. M. M. M.				1 1 T T = 1 - 1	*******	10.0.0.0
1232.86-0	Q482576(Mentifriespilla nivalia							
KEB AC-M	P380357(Loochura makehanca							1.1.1.1.1.1
£234, AC-18	4280745.emiltura purchulata							
215 AC-10	CRITI24E article minute							1.0.4.4
1				-	.H.			
aut :	251 2 10 10 10 10 10 100	Resident Andrew Martine	and the second second					

## (iv): Variation at Amino Acid Level (Singleton Sites) in Sequences of Passeriformes Computed by MEGAX

Nerve	and the second second second second second second second second second second second second second second second	1.000		+ +		a lata		2.4		1. 1	1.1	+ 6	A 1	r. A. 1	5 M	1 6	C & .	1 3	LL	1.8		E 1.	6	0.8	6.4	LL	6 A
VI. BOLD-AA	ES7335-amous vittatius			-									1.1.1														1
#2 BOLDIAC	Z2478 Printa Buchanami																		1. 1								- D.
VI BOLDIAC	22564(Adapte pulgate aperatio	- + -					÷. •									1											-10
24 BOLDIAN	098700Galerida cristata arenicata															í										1.	- 12
VIS BOLD-AB	15005/Percent his participantia								2.2		2.1				1.1	1.1						1.1					. 17
Se sounds	CB530(5)/Vilk Curricite Curricite	1.1.1				A. 4. 4	1. 1								1.1	1											- 1
27. BOLDIAA	V3934(7 aphrodomic pandicarianiai															1											- 1
WE BOUDAD	H0229Dendro-citta vagabunda saturation										2.1					í											6
29 BOLDIAA	R0140(Cervus gelandane gelandane			-				1.1			2.1				1.1	Kan I			1.16			2.4					
918 BOLDIA	AC1336Phoeniculus administ			$(r_{i}, \sigma_{i})$				1.1								1.1.1											•
211.80L0:A	AV(SUSQ) Chrysomma simense								1.	1212	÷ .				1	ť., .			1								- 1
¥12.80LD.4	R2R098.weivs schech schech						1.1	1.1																			- 1
1413.80LD A	CZ3425(Privia ancialis ancialis															ł	. 5										- 11
934 BOLD A	AX40434 Meterocoryphe temoculate														1.0	f											
9215.803.DA	CEO AlijAoridothenes gingmienus	1.1.1														1			6 m.							18	
216.80LD A	CSTD FL (Critical e juncidie	1.11										4			• • •											1.1	- 1
217.80.DA	ABIL18Panter roomus					A. 4. 4	+ +				÷				1.1	1	1.4					1. 4					-1
WIE ROLDA	(Z)80(Enibeliza buchanani							1.1							1.1	£											•
1218.80LD.A	D-68552Evernoptaria grivena	1 A. A. A.					1.1									1					140	÷. ÷					- 1
918.80LDA	ABORTA Carpodacus etythious					1.1.1	1.0								1.1	1											
9721.80LDtA	CZ2757(Orielus orielus							1.1		0.000					10	r			1.1		1.47					1.0	-
922.80LDIA	A89623)Corvus corex corex		88	+ +			+ +	1.4							1.5	1											
¥35.80LDrA	AL2708 Pericrosoftex circumomeus			+ +			+ +									¥.,	. 1				1.0		-				- 1
VALUED A	CZ3474(Porsa hodgsonii		<b>1</b> • 1	1.1	2.4		1.1	1.1							1.1	£	5										- 1
925 60LD A	AB296272.interops palpebrusus palpebrusus	1.1.1					1.1								1.5	£			110				4	- 14			- 11
₹.8.80LDA	AN(860)Pychonatus keucogenys			1.1	1.1		4.14	10.0	100						1.1	£						1.1					- 1
¥27.80L0.4	CHES24/Phytoscopus affinis	1.2.2				1000					2.2				1	1			1.5			÷				19.00	
F.B. SOLDA	B45001Konvis mitchoghchiel	1.1.1		1.1	1.1	1.1.1	1.1	1.1							1.1	۲											•
929.80LDA	CE2200/Cognyobus saularis saularis							1.1			4.4				1.0	ſ						÷					
90.00LD A	AV3303[Tischelayteon lineatum lineatum														1.1	1						1.1					- 10
WILL BOLD A	CZ3540(Parus major	1.0.0		1.1			1.1		1.0	(	10.00				1	1			Y V			6.4				- Y	- 3
	.6	14																									62
Stat	54 C 131,152,153 (31/300)	Seglet	12/02	0		216	tene beb	etel.																			

2 Name		D .1	0.0	1.5		N	Ŷ	1.1	1.1		H	A 1	F. Y	14	1		M	¥.	M. 7	1	M	1	5 6		6.1	N.W	r. 1.	·¥		L M	1	6	A P	D	M	A.		<b>R</b> (	M.N	I N	
91. BOLD AAF5733 Lanius vittatus																																									T
¥2.80.DAC23476Pvnia buchanan																																									1
₩1. BOLD:AC725640Aleaste galgale a	euthalis .							Υ.																	2.5																
24 BOLD AADMADIANIA COLMA	arenicola																																								Ш
VIL BOLD AB35000 Person his particle	e788			N		1		ν.,									1.1														1					2					li
St. BOLD AAOS330 Survey of	amoca																																								Ш
97. BOLD-AAU3834/Tephradiumis po	industation						1	Υ.																							1										Ш
928. BOLD AD 6025 Develop offs vap	abunda saturation																																								н
99. BOLD-AARDIARCenves spiender	na spikenderte	÷.,																							1																н
210. BOLDIAACISMPhoenicurus or	Overos				È			Ϋ.,																																	Ш
11. BOLD: AAVSOID Chrysamma an	writed .	2.1				12		2.				2					1				1.0	20						1							1.			2			Ш
9/12 BOLD ARZITER Lanaus schech s	chach																																								н
913. BOLDIACZONPOPures soutails a	ocidite .														÷ .			۰.									2		24	e c	1					1		-			Ш
¥14.80LD A&/4894[Melanocorright	a bimaculata																																								н
15. BOLD ACE/VERAMINTEER pr	rginanus			1				κ.																												1					Ш
9/16 BOLD ACSTER (Calicola Juncid	2010 C C C C C C C C C C C C C C C C C C		+ +																																						н
211.00L0.AA80139Patter rooman				N			4	٧		1.0																															н
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21. 80LD ACZ/757(Ovalue overlas							ά.	Υ.,																	1		1.0			1.12	1				141	2		- 1		1.4	Ш
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921 BOLD AAL2706 Periorson tax siz	roamentaix.			1.	1			Υ.,				÷ .					114	1.0			1.00						1.4								140						Ш
W34. BOLDI ACCURTUPINIS hodgeon	£																																			2					н
W25. 80LD AA82942[Zestweeps page	abrumas palpalernsan			N	1.0		Ξ.																		÷ .											2					н
925. ROLDIALNIBED/Pychonotus les	ucogenys																										1.														Ш
27. BOLD ACHEO30 Phylinicipus a	finis			. V				¥																																	Ш
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12/29. BOLD ACE7266 Corporation and	inia anylata							W		1															1																н
2 30 80(D-AAV3281(Trocholopternet	Interture Registran			y	6 in 1																																				Ш
12. BOUDIACZ3140(Parat mager				N	ŧ.,	1	1	٧.,					1		τ.									1.							1					1					Į.
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¥4 BOLDAN	09070Gaterida cristata arenicula																τ.																						11
S BOLD AB	13001Percent his particulation																														20			12					11
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T. BOLDAA	23314(7 aghesdoonis grand cariance																	. A													1								.11
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VI BOLDIAA	ID14DCenvos splatshers splanders															12			9.	12.7								. 14	6		92		12						л
¥10.80LDA	ACISMPhoenculus adminis																																						. 11
¥11 80L0A	AV8082(Chrysomma simenia						 					Ξ.				1							2																. 11
¥12.80LD 4	E29029E.wrius schech schech																																						. 11
¥11.80LD-A	CZ2475(Primia sociado asterialia																														23			1.2					.11
¥14. BOLDIA	AX669435 Melano conputer bimaculata																τ.																						11
VIS BOLDA	CE474BiAcriduthware genginiamus																												2										. 11
¥14.80LD.4	CSIDIL/Cittorie juncific																	. A																					11
217.80UDA	A20129/Pader resear										÷.,																							1					11
	CZ1EX0Emilieriza buchanari																																						11
10.80LD.A	CHERSO Franceptaria (privata)																1																	1					41
10.00.DA	ABDE74) Carpedocus etstifytimus																																						11
21.80LD:A	C22757(Orielus printus					2.				14	14	1.1				1.				1.1			1		 1.						1		1.						41
222.80LDIA	A89623) Cervus corex cerex																																						11
VIII. BOLDIA	AL270EPericrosoftwa sinnamomeus																	. A	Ξ.																				. 11
VIN BOLDA	CZ3474(Prinka hodgson#																																						. 11
VIS BOLDA	AB2062(Zenharops patpatronae patpatronae										-			2.2					1.						-	÷.,					24								11
XX SOLDA	INDEDIPycnonetus Inucogenus																	. A																					11
21.80LD.A	CH0121/Phylescepus affinis											-				1			1										1					1	141				11
HIR BOLDA	BASMIKonus machonynchus																	. A																					11
¥19.800hA	CI7200 Capacitor soularis soularis									1.		2					-									14			1.										41
20.00LDA	AVI3811Trochrisphoron lineatum lineatum																																						11
WILL SOLD A	CZ1040(Parus major																								1									1					18
10							- 1	il					1																										Ø.
See.	151 2 451,452,453 (351/300)	See	dete	-1	2/990				26	terne .	tabe	and					-	-				-	-	-			-	-	-	-								_	

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V 32. BOLD ACZ2946/Uncome Revenutris flavorative																		γ.,											100	1
2 II. BOLDACE/BOSterbuildigsk purthapi						+ -												¥											. *	1.1
VIA BOLDACSHIAITerpsiphone paradisi paradisi		1.1				4												κ.									2.2			
2 25 EOLD AACSTLIE Arophonus cemána																		v												
¥36.80L0.4C230EH unipeter Inscorptialus		2.2				1												¥				1.1		10			2.1			
2 17. BOLDLA4BIT21/Dicrums Inscognanus						4												κ.,												
2 B. BOLD ACZ3094[Emiliarius latherni		2.4				2												κ.												
#38. BOLDIAACLIMPatter Ornamomeus rublers		4				4												Υ												- L
9740. BOLDIABNSIBIJCanva macrohymhes						+										1.14		¥						1.		1.				
241. BOLD ACHERLICHTratemus sutomas	-							÷			0.41							¥	1.0											
9/42.80LD:AAM9906(Denanths picute	-		-			1		-									+ + <sup>1</sup>	γ.,	-											
¥43-BOLD ACZ2563Copsychia fulkation			-			-					1 A 1							۷.,												
44. AC- ABM3701Pitte brachysare						-																						- 1		
945 AC-IQ17006(Aegithina tiphia		* *																¥												
946 AC-M9830343 anias collaries													2.14		0.40							1			÷.,	1.				
947. AC-6Q482028Lanius Isobelinus						+																								
9748. AC-0Q482003Lansus cristolius													÷ .																	
9749. AC-EP6215993Lanks tephonotus						+					0.010						<ul> <li>•</li> </ul>													- A 1
S0. AC-39007883.amias excubitor		4				4			4. 10													1.		14.1		1				12
W5L AC-6Q882218(Onitue chineneis		3 (s.	н.						4.15		÷.,						1	¥				1.								1.1
252 AC-IQD4606Dicrunal macrocarcus	10			+		+	1.00				0.001.0	26	- X		1241	-14		٧	24.14	- 14				140		(Ge.)		1.		
253 AC-IQD1686(Dicture hotbertuttus		8.0	8			÷	- (+) -		1.2		÷.		- M					٧												1.1
954. AC-/QDR130/Rhipidura aureola		+ (+	•		* *						+						'	¥., -										-		I
255 AC-6C254829Higothymit.szums											1.823		2.0	÷		A		۷												- N -
#56. AC-SQ481963(Genslus glenderus		10		1.00		1									0.40			¥				1.		14.1		10	1.1	-		1.1
№ 57. AC-IQD98603Unocisa eythiomyncha		* *				+	- (+)+	+ -	1.1		.+:							۴												1.1
258. AC-GQ4E2478[Firs pics		* *				+						1.14	2.1	2.4		1.14		κ					10				1.14			- A
236 AC-00511501 Nuchriga carpecidades			Ξ.		* *			1.0	K D	1.4	1.1							٧						1.0						
218. AC-0Q482D6(Pyrtamma pyrtamma						+						1.	÷.,	- 1	1.4.1			٧								1.0				
VEL AC-SQR2573(Pyrthocoms graculus						+					0.010					1.1						1.00						-		1.1
WEZ AC-GQ481647[Canvus microstic/a			Ξ.			-					1							Υ								14				I
A	1.0																													10
Laur 51 (1152157/51/100)	- 54	ighter	17/1	190			205	terns to	in the																					

@Name		1.0	W.	0.9	(A)	6.1	ΠT.	м	1.1	т	0	R. 14	R	τt	10		e) e	(A)	6.4	0	(8))	F. 14		10	Q H	16	1.3	10.1	10	0.1	105	10	XD	εsτ.	1.5	1.15	20
21. BOLD AATS7318 arrays	attatus													1. 4					1.					1.		1			1.2								
SE2 BOUDACZ2878[Points1	buchanani				G					14				2.6											1.1						1.1				G.,		1
VEL BOLD ACT2564 Alards	gulgula autoria		14.7		÷.	10				÷.				1.		1.1		1.4	1.		1.1		1.4	1.1		1.			1.1			2		1.4		1.1	1.
24 BOLD AADMINIGHEN	Na civitata aresicula				1	10		1		÷.																											÷
25 BOLD AB(5008 Panar	hispaniolansia					1.1									1					1													41.		÷.		۰.
A BOLD AAOD BOAND	Curruca curraita				1	1.1				1					- 63					10					11						1.1				÷.	12.4	0
97 BOLD AADDIN Tephen	utemia pandicariatua				1		1.1			1					- 23	1.1			12.	12	1.1		1.1	12	11	÷.,	1		12	1	1.1			1.1	÷.	124	24
W& BOLD ACHEL2(Dends	potta ospaborda saturator					1.1									10					12					1						1.1				÷.		
99. BOLD AARDIARConnel	splandana splandans				1	1.1				34				1.14	10				1.1	1	11		1	11		12			121		1.1			1	÷.	1.1	
WIN BOLDIALCISHPHOP	ticuna ochruna					10																										10		1.4		1.1	1
11 BOLD AMS/BROWN	Antonia advantas							1		1				1.		100				- 6														1.			
SF12. BOLD AB28125E.mile	schech schech					100														- 63															÷4.		6
SELL BOLD ACZDOS/Dinia	socialis socialis	Ι.			1.					14			21.1	114	1	61			1.1	1	121				1.1	1			120	1					14	1.14	
914 BOLD ADDRESS	ntcorypike bimeculata				÷.	2.1	1.2			64																									1	1.14	1
9/15.80L0:ACE4748/Acrid	otheres gasginianus				÷.					÷.					1															ç.,			1.1		÷.	1.1	
W18. BOLD ACSERLICIES	elle juricidis.																																				
17.80LDAABILIRPene	Industan				1	1.1				а.				1.4	- 22				1.1	- 2						1.				÷.,	1.1				÷.	14	١.,
#18. BOLD ACTIENTEME	vita huchanarii					1.1														1															÷.		
9/19. BOLD ACHIESS(Enem	replacio grinava	Ι.			1	1.1	1.1	1		1				2.5	- 23	1.1		12	1.	12	1.1		1.1	0.5	1.1	10	1.1		1.1		2.5	12		112	÷.	12.5	1
₩.m. BOLD ANBIETRICHIPS	docus etythrinus																														2.2						
921 BOLD ACZ/157 Drink	as oriekas				2	100				2					1				12.	12										÷.	1				÷.	2.5	15
9-12. 00LDIA4806/11C0/A	IS CONDA CONDA																			10															÷.		
WITH BOLD AAL7706 Parton	outro consensation	Ι.			1					24				1.	- 22				10.							1									14	10.1	15
9736 BOLDIACZ2876Print	hodgconk														- 22																				÷.		5
W25. BOLD AABOM 2 Jointy	num pelpeleting pelpeleting	1.			14					14			20	1.14	- 23			1.			-		1.	÷.					1				- 14				1
235. BOLDIAANDERDPHON	anotus leucagenus					20									- 23																				G		
227. BOLD ACHOLDIPHY8	Decepta affires																																				
#28. BOLD ABVIOLINE Kenn	us machogradius.																																				۰.
9 29 BOLD ACI7266 Capes	other analysis analysis					£			2.1	а.			2.4	1.5	-2				÷.,		÷.,			40		14						Ξ.			÷.,		١.
WID BOLDARYINE[Tech	alighterse lineature lineature														1					1															20		
Wit BOUDACZISHIPara	main									1					2				1.1											÷					÷.,		
																	-	_		_		_	_	-	_	ė											1
14et 251 [	781,792,793 (256,934)	5	nylet	in. 17	/530				12	25 14		lected																									

@Name		LH	E 1	4.6	1.5	5	1 1		a 1	N	F. 1		t-à	1.7	( M.	C.F	F - 1	A. L	50	ξ. ¥.	Q -	τP	1	FΥ	10	5.1	1.2	1.1	- A	¥.1	1.1	LL	- 5	1
VI. BOLD AAFS7118 anius	vitatus																																	
¥2.80LDACZ2876Pvinia	huđunani																																	- 11
¥1.80LD-AC72564[Alasta	spalgale exclusion		1.1		1.1									κ.					÷.,				10				1.	1.1				5.1		- 8
¥4.80kDAAD9870(Galeri	la ciutata arenicola				10.									1													1					ι.		
#5.80L0-A845000Permet	hispanislansis			14	2.5					1			12	2.5							1.0		- 23				12	20				2.1		
₩6 BOLD AACESHID AND	CURTUER CURTUES												2.5	13					1.															
T. BOLD AAUDIOH Tuphe	ofornia peridicarianan			1									1.	1.1					÷.,			έ.	1.1		14		1	1.1		÷.,			- 11	
94. BOLD AD #025[Dendi	related to boods be a strong the second seco				2.5									23													22					3.1		
99. BOKD AAISI 48 Cmm	aplandares splandarts		1.1	1.	2.5	1						-	1.4	2							- 21		1				1	100	1.1			5.1		
≥10.00L0AACISMPhoe	nicerus ochrunni																																	
VII. BOLDIAAVKIBJChrys	Letterive sciencise			1.1						12	1.1	1	10.	10	1.2.1				Q. 1.			1.1	-20	10.	12		1.1	10	112			5.1		
¥12 80,0 482809Lmin	Eschech schech				1.1									1.1													1.4					1.1		
¥13. BOLDLACZONTS[Prime	soulable apreidin		1.0									-	1.1	1.1	1.							2.5	10		1.00		1.							
¥14.80kDAAX4494JMm	recorypha bimaculata				1.																						1.					1.1		
215.80L0AC6048Amd	offsens programs				1.14								1.1	1.1									10				24		1.					1.1
₹18.80L0.4C3100.00ml	pla juncidis				1.14								2.	111									12				1.1					1.1		
211 BOLD AND DEPART	1 PERMAN			1.4	1.4								1.	1.1					4.1								1	10				5		
¥18.00.04(2)8008=64	sta buchanani				124								224	124						1.1							24					1.1		
218.80LDACH883[Eam	optate present		2.2	1.1		1.0							2.4	1.3					÷.,		1.0	6.4	10				1	10	1.				14	
2.00.80L0.0480E78[Carps	idacus etythtinai				1.14								1.1	2.5									10				1.5					Ξ.		
21. 60L0.ACZ/75Tj.Dnuk	an orrectual			1.1			1.16				1.1		1.1	1.1	2.5	1.4			4.5	1.1	240	2.54	13		123	1.1	1.	10			1.2	÷.,		
€ EL BOLDIANESKELICOV	IS COVINI COVINI																										84					1.1		
923. BOLD: AALZ/MIP min	soldus circumanas		S	0.5	1.14					1.			2.74	1.1									10		1.		1	203	1.4			5.1		
V.M. BOLDIACZ/MINIPINI	hodgconi													1.1									10				1.1					Ξ.		
¥25.80(DAA83543)Zem	rops palpalerona palpalerona		1	1.									1.1	100	1.0			. 1					-12				1.1	12					14	- 1
2.35. BOLDIALNIBBILFYON	photus keucogenys				1.1																						1.1					1.1		
₩27.80L0ACHEERIPH	eccepte affine			1.5		1.							1.	1.1					÷.,				100					100						
928 BOLD ABASSING IN	ut machogendhat				2.14									133													22		14.			S 1		
2.29. BOLD AC87266 Cope	thus saviers seulets			1.1									24	1.1					4.				- 23				1	123				5		
# 30. BOLD AAYO BE[hech	interest extranil increases																										1.			÷.,		1		
9211.800.0AC21940Paras	main		1.1							1.1			1.5	1.5	1.0							1.5	100				1.5	13						1.14
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2 12. BOLD ACZ2646 Unicine Revenutive Revenutive																																				
2 13. BOLDIACZ/BURStechysiologisk gymberel																																				
2 M. BOLD ACSHIG4 (Terpsiphone paradis: paradis:					1	Υ.,																														
25 BOLDIAACS7LIEAyophonus cemieus			W.			٧																														
# 36. BOLD/ACZ306/Humipeter/Inuccompitatus						ν.,		122		1																	1					1		2.1		
# 37. BOLDIA489127[Dicrums inscoginatus						¥																														
# III. BOLD.AC23004[Emiliariza latherni			N.			۷.,																					100									
# 35. BOLDIAACL200 Patter contamoneus rublers						Υ.,																														
240. BOLD: ABW5060;Canses mecroflymchae																1.2				÷ .	1.					1.			1.1		1.					1
241. BOLD ACHEORIJO Photomus sutorius																																				
#42.80LDtAAM9908(Denanths picula						v													-								-									
#43-BOLDIACZ2563Coesychia fulkraturi						Υ.,																														
#44. AC- ABB43701(Pitte Inachysere																																				2
745 AC-IQ17006LAsythina tahia						γ.,																														
246 AC-M94330343 anias collarie						÷ .	1			2.4	1.0				÷ .		-		1.2	÷.,										÷.,						4
247. AC-GQ482028Larius Isobelinus																																				
#48. AC-0Q482803Lation cristatus			1.1		÷.,					1.																										
249. AC-090213998 anius tephonotus																																				
#30. AC-IF4007883.anias excubitor											1.0								12												1					4
#51. AC-60482278EOnaluz chinerea						Υ.,																														
4.52. AC-JQL14606Discuss mechanism			1			٧.,		1.1								1.2					12			1.0		1.					1.			1.1		2
2.53. AC-IQD14680;Dicrurus hotbertrattus						¥																														
254. AC-2012019higidura sureste						٧.,																														
235 AC 4CI54929Hypothymis azurea						٧.,																														
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257. AC-IQL78603Uncouse eythrontynche																																				
256. AC-0Q4EX78(Fea pita																																1.1				
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VIE BOLD ACZ308(H) graphs laucecephate						÷.													4																					16
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39. BOLD AACL199Paster ownamoreus ruttlans						÷.,													4																					18
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242. BOLD:AAW/WSR/Denanthis pisular																																								
¥43. BOLD ACZ2962 Capity that full inter																			Α.																					
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1446, AC-X840380343, annua collunia						4								-													1.4													
247. AC-SQ80509Lanius satellinus																																								
9/48. AC-0Q482003[Lamius midshut																																			1					
949. AC-19121398Lonius tephronotus																																				10.0				11
9/30. AC-3908788 Lanius modellar						۰.	10										1		A.							1			2.1				ε.		1.0					
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914. AC-2020120(Rhighdura auracia					0.4	4											1		Α.								1.	-	1.1											
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Will, AC-GQ882573[Pyrthocomy graculus																																			1.					
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56 AC-GQ401063(Germine glamberus												÷.,												10			
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46, AC-484618014 Lantus collune				1.1	120				1.1			1							• •					1.1			
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39. EO(D-AAC1399Paster contamoneus ruttilans													- 4												(A)		
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34. BOLD ACI464 Terpsphere paradas paradas				Ξ.		1.1		1.		2.4			. A	1.								2.2		1.1	- 60		
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210 AC-GORDOSTIpala (para						٧																														- 12
P71. AC-OQ4E280(Riguesia diluta						Υ.,				1																										1
271 AC-0082579Pt/onoprogrampetris						9																														18
WTL AC-MP30225(Physneprogra fulgula						γ.,				1						1.1				4					1.					1.1						- 18
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# 78. AC-GQ4E1683Delichon depput																																				11
270. AC-2Q1761200Rhightura hypotramha					1	٧				1																										. 1
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Will. AC-DQ20707[Capitalogyrus flamminage					-	2.					1.1								1	1.					14		1.									- 11
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9/85. AC-CQ4835823Cyanishis syamus			1.			ν.,		12.0	Ξ.	1	-		1.4											1				1.1				- 1				- 11
W 86. AC-INDERTOSParus monticolus		1.4.1.4				1.1	1.0					÷1.		1.1		1.1.4	1.1		114	10	1.1	1		1	1.0	1.1	1.1			1.14	1				121	- 11
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288. AC-HQ005281(Aep8tialos concinnas																																				- 11
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280. AC-KHEP143(Sitta sashrrivarois			2.	+		+		+	-			4					-	- 14	- 1	6													
9990. AC-KA67257/Sitta tephyonota			-				- (- ) -				(47)					1.1	14.7	- 14	1.1	6.5													
201 AC-4367348[Sitta frontalia									4.1							1			6.1	6.5													
9/92 AC-0082770Chodrome mutaria									4.1										6.3	1.1					1								1.1
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218. BOLD-AC2304	Emberica fathami																																						1.4	11
2 IB BOLD ANCI 198	Passer cineamorneus rublans																																							10
#40.80LD-ABM5160	Corvia macrohymhes																1					1											1						1.5	11
941 BOLDACHERS	Diffusionius solorius																																						1.5	11
942 BOLD ANVIOR	Overanthe picula					1																					4						1					2.		11
943.80LD AC2263	Copeychus Pullicatus																																						1.00	H
244. AC- ABB417518	its trachpure																			1.1				1.														1		н
\$45 AC-10173908A	ngithina tighia																											2.5		1.			1.4	1.4	1.1		14	÷		н
1446, AC-5846380348	arrive collarse																					5.																		н
9.4T AC-SQ4820781	anius isobellinus																																					1.1		н
¥48.AC-6Q4820531	error cristetus			1.2													1					1																		Ш
9240-AC-095213988.x	nius tephronotus																																							
250.AC-IF4007068.a	rise acculator					1										112	4					1					1.						1					2.1		11
953 AC-SQHEZZRIC	Malus chinencia					ς.,																1																		11
VISE AC LIGETHENED	orana macrocamus					1	1.										Ξ.					2	1		÷.,				1.0			÷.,		1.0					1.	11
953 AC-R011690(0	cruna hotestattus																												1					1.6	-			1.3	1.	11
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¥35. AC-803548289	lypothyme: acuita																																		1.1	1.1	1.0	2.3	1.1	11
WIR AC SCHEDUIG	attutus glatidatus			1.			- 47								÷.,		1	÷.,				1		4	1															н
257. AC-IQUIMODEU	possa erythiothyncha																											2.1				1.1			- 1		14			H.
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She <sup>2</sup>	51 5 791 752 751 (251/181)	5	- date	-1	1/108					215 to		-	1			-	-	-										-												

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243.AC-00406	40) Cennus frugileigus												1.										1.1								1.00		-4.	4
9764 AC-685713	21 Planuma biannicus																											1.1	14.5			40.9	1.4	÷
1248. AC-1146330	Openmomanas slavarti					1.1															÷.,			1.0	1.1	1.00	10.0	1.1	÷.,			4.14		
9.08 AC-MESIO2	DEEremopheris nigriceps			140			4.14													1.14								6.4					1.4	
VERT AC-GORDE	54(Enerseptole algentric																			ε.,													-	÷
9768 AC-SQ4814	32)Catoribella acutivottis																																1.00	÷
9240. AC-504814	20) Calendralia rufaccento																				1.1					1		1.1					1	
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971 AC-MP5802	25(Phyanoprograe Fuligatia			141.4		4. 4						1.														- #		1.1	1.			10.14	1.41	÷
RTM. AC 4975451	09Hirunde natica																	1.1										1.1					1.4	÷
5475, AC-004933	25)Harundiz amittuk					2. 2								1.5				1.1			1.00						14.17	1.14		1.1	1.0	2.12	14.	
976 AC-OQUEDS	03Cermps dautca																																1.4	-
217. AC-604816	RijDelichen urbicum					2.1					1			4.16	14					1.1			1.4		1.1			1.1					1.4.1	-
978 AC-6Q408	RQDelichon datapus																																	-
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9480. AC-IQ17658	R)Culicicapa ceylenensis																								- 11	0.00		1.1			1.0	* *	1	÷
9(81.AC-1)(2370	0)Caphalogynus Hammisupe			1.0																			1			1.		1.1					1.40	
₩87, AC-1051879	CPeriparus Ater																								1.7		33	1.1	1			2.1		÷
948 AC-HQ281	34Pena rabidvertni			1911									12					1.1										12			1.00	- 14	1.0	÷
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9285.AC-0Q4818	E3(Cyanistas system)				1.	4.1								1.1					1.4				1.1					1.1					1.	÷
946 AC-084973	S(Parus memboolus												1.0																					۴
287. AC-848720	79/famie pendulinus				0.00	4.1	1.14							4.5									1		11.1	1040	1413	6. 4	1.			A. 4	1.1	4
948 AC-HQ8152	Billeythaks concinews																						2					1.14			1.00		1.0	-
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961. AC-5Q483640(Cervus huplegue				
964 AC-60371321 Peruna bierricus				
92.65. AC-FI465300(Annonumber alexanti				 
#66. AC-M/580208E/envoptorix regrictant				
#67. AC-GQ601854[Esemighile algoritis				 
268 AC-SQ40432Calendedu ecoloristes				
9/69. AC-0Q681425(Calenitella rufessere				 
W.M. AC-GQ682605(Ripera riperta				 
9 TL AC-OQ482008Riperia diluta				 
VIII AC-GQ60578Ptyonoprogrampeths				 
✓ T1. AC-MF980225(Phyonoprograe full gula			* * * * * * * * * * *	 
274. AC-KY7545339Hirynde ruttice				 1.1.2.2.2.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.
975.AC-00401119Hirundo amithi				 
2 76. AC-OQ815533 Cecrosis daunca				 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
977. AC-GQ4E009/Delichen whichen			<mark>.</mark>	 1.1.1.1.1.1.1.1.1
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✓ 10. AC-JQL7813SRhipidura hyposantha				 
₩80. AC-IQ134590(Culkicupa ceylonensis				1.1.1.1.1.1.1.1.1.1
981. AC-8025707(Cephalopyrus Henricogo			<mark>.</mark>	 1.1.1.1.1.1.1.1.1
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9/85. AC-DQ481683(Cyaniates cyania			a a a a a a a a a a a	 
With AC-0848735/Parus memborius				 
#87. AC-412572070@amir penduknus			* * * * <mark>*</mark> * * * * * *	 
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990. AC-KM07257/Sitta tephronota				 
9 91 AC-80467140(Sitte Inertials				 
#92 AC-GQ62777[Chodrems mutaria				A DECEMPENT OF T
990. AC-AP282529/Centhia hestgrow				 
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943.AC-00	401640(Cennus frugitages			1.																			1												. 1
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1466 AC-50	481432)Calordedia acutivostris															£	Α.		1					÷.,											. 1
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976 AC-00	4813323 Cecropic daurica					÷.,	1.5													20.					÷.,	11				÷.,	1.1				- 1
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9786 AC-D8	40725(Parus monticulus					1.4									* 1		A.,													1.4					
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9892 AC-60	4527777;Chodroma murana					1.1				1.						0.10				1.1					1.1					1.					- 1
993 AC-80	2825209Certhia healgeoni			14.1		1	1.1		• : •					1.4												1.1			- 1		1.1				
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# 06. AC-GQ481380(Cerchas pallasis			w.		1	¥.				2.5			100						1.0																	1.		
¥ 91. AC-IF#88897Pycnonotus cafer						Υ.																																11
998. AC-KX520058(Pychametus jocomus						8																																11
9799 AC-SQ482599Repulse repulse																																						11
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# 106. AC-HQ608865Phyllescepus regulation			v.			N.																																. 18
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9 109 AC-KR531879-Apportais languida			*			Υ.																																. 11
2110. AC-6Q481367 Acrosophatus melanopoper			1			ν.																																. 11
W111 AC-603711113Acrocephatus agricola			¥.			V.																																11
9/112 AC-KHERLERACOCAPTurbus concinents			W.		1	W.																																211
✓III3.AC-28993943Acrocshina dumittorum						¥.																																11
2114. AC-GQ48L283Acrosophilus scipacitus			N.			Υ.									12																							
¥115 AC-FR847228(Acrocephalus arundinaceus			N.			N																																11
92135. AC-KN53157[Acrosophalus stantonus						9															1																	211
¥117. AC-199370219Megaturus palustris																																			π.			211
2118. AC-60371853 countelle name						N.																																11
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496.AC-40	AB15808Cinctus pallesia		. 1		۰.								۰.																	2.					÷.	2.5				11
¥97.6C-84	BBB7/Pycnenetus.cafer																		1	ι.																			1	
POLAC-KE	\$20018/Pychonetian (access)						2				1.5		22					÷.	2.4	÷.,				1.2					2	2					÷.					
999.40-00	04825998 Repulsis regulars																																							
¥ 100, AC-0	Q681547(Cettie cetti												1							÷.,	1.2							12			м.			1						
9-101 AC-6	65720.III.Phylloscopui hyme																																							
9102 AC-M	N360480@hyllescepus growthat																																							- 11
€103.AC-0	UKTO799/Phylloocopus cellytete																																							
97104. AC-6	Q6D461(Phylancopactrachiloidee				-	1.1		2			12	1	2	1.			1	м	2		1.1	-				-		12	1	2	27.			12.						
¥115 ACH	Q858867/Phytilescopus megrirrottms																																							1
WING AC PI	Q038863Phythoscopus requinidas			1				-			1			÷.,					1			-																		- 11
\$107.AC-0	QKE1975Bdurne caligate																		1.1	έ.,																				- 11
₹108.AC-K	NS31773duna nema												10			1			. 1	κ.,									1	10						1.1				11
¥109. AC-K	#50087(Happolais languida												12						11	ι.,				1															1.1	- 11
£110.XC-0	Q481267) Acreceptulus malaneprepon					2.14		41			14	1	έ.					λ.	1.1	ι.,	1.4				4			12	а.	÷.	43				ά.	6.4		1.4		-
94111. AC-0	057L2L23Acocophatus agricula								1.										1.1	κ.,	1.00	1																		11
VELLE AC-K	MSIEIZAcocephalus continens					1.1		20			14		1	Ξ.			4		11	ς.,			1.1	1	4			14		1			÷.,	14		1.3				1
¥III AC-A	BERDRUGAcrocophalus durinatorum																		14	£.,																				1
¥114.AC-0	Q4RL3R3(Acromphatian stirpacoals							43			14							Ξ.	- 1	6.5	1.00								1			÷.,	1.1	1						- 11
¥115.AC-0	BK728(Acrecighalus anundinactus																		. 1	κ																			1.1	
9116.AC-6	NS0157(Acmcephalus stantonical	- A - A		1.		1.5	- 22	41				а.	22	÷.,				Ξ.	2.1	κ.,	1.		1.1	1	14		÷.,		5	22	4.1	а.			ά.	2.5		1.	21.4	21
¥117. AC-IF	9370239Aegolueus polustris																																							-
HTTE AC-0	LISTERSE example in any in															1.		ι.	. 1	κ.,			ς.							12					λ.			1.4		- 11
WILL ACH	Q88884Phinis children																		. 1	£																				- 11
¥131, AC-8	U722450(Provie gracelie			1.0		1.1					1	1	1						. 1	£.,	1.0		÷.,					1	÷.											- 11
912LACH	Q038883(Printa flavioentris															1			14	ι.						1														11
¥122.AC-6	7340032/Presia econorta											1	10						. 1	κ.,									1	1						1.1				-
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¥128.AC-0	6/672123 physics minerics					1.1	1					1.	1			1.			. 1	6.5			1.1						1	1			1.1			10		1		11
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104. AC-GQ463462 Phyllinicipus trachileidee		2.0		*		1.1							- 1																6 P		- 14	199.5
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206. AC-HQ808863/Phyllescepus regulation				1.1		1.17											- 11									. * )			0.1	1.0		
3107. MC-GQ481973(Murra caligata		1.1												11.1											1.1				÷. *			
108. AC-83453177[Iduna netta		110				÷					1.1					4.14					1.1		1.0	-	1.1							
9-109. AC-KX5318794ppoteis languida								1.1																								
110. AC-GQ481267 Acrosophilus melanopogen		1.1									1.4				1.0		1.00					1.0										
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9/112 AC-KHS2122/Acrocaphalus concinents		1.14																		1.1											- 14	
¥113. AC-AB993942 Acroopholus durentieum															1.0								1.4						ι.			
#134. AC-GQ48LJE3(Azroceptulus scipaceus		10.0	1.1		1.1										14															127		
94115 AC-FR847228[Acrocephane any+diractus																																
92136. AC-KARS2057[Acrosraphalue stantoreus					1.0																											
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97103 AC-40	UETOTISEPhyllocopus cellybite																												1.00	* 2		-			1.11	14	- 1
104. AC-0	Q482462;PhyReecepus trechileidee								÷.,																		÷		i.,	-							- 1
¥105.4C-H	Q808867/Phylloscopus magnirostris																													10.1			14.1	÷	1.10		- 1
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¥107.AC-6	Q48387508una coligata																																				- 11
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€109.AC-8;	X50077Hippolals languada																											- 22					-				- 11
92110.AC-6	Q481267/Acrosophatia melantprogen				1.1															1.1										4.1		1.4					- 1
₩111.AC-6	01712123Acrocephatus agricola																					10											-			1.	-
92112 AC-83	MS2122[Acrocophalus concisents					1.5				1											1							2.5	1.0	10.7		1.4			1.16		-
97113 AC-A	000042jAcrocytelus dumetorum																																		1.9		-
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£115.4C-H	R\$47228(Acroceshatus anundinacesa)										н.												1.14	1		-	-	-	1.1	-	i -	-	-			14	-
92136. AC-R.	NS3157(Acroceptulus stantoneus																-											- 14		-		1	-			-	-
9117 AC-IP	9570239Aegelunia pelutriti									w																											- 1
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2134.40-44	005000/Trochalopteron erythrecephakam woodi	Ŀ.				4.18	+			4						÷.,				- W													4
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-136 AC-60	482226/Muscicape sibilice	Ŀ.				4. 4				-16	1.1	1.00	1.1							. 4													чH.
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₹130, AC-60	5713879Aureicope stridu	- I		-	. • .	4. 1	+		÷.,	1										. 4													1
¥140.AC-NF	580391)Cercentriches galactates	ŀ.			+		+	1.2	÷.	-	1.1		٢							- ¥													11
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₹145. AC JQ	(75290)Lascinie roegerhynatica	Ŀ.				4.18	+			1		+	•							× 4									1.1				1
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2148.AC-103	176404(Tarsiger chrysanas	÷.,					. **		4.											- ¥.													
2158 AC-JQ	(F4845)Ficedula megifiata	ŀ.			. + .		+													· ¥			٧										1
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¥152.AC-00	571883@icestula parva	1		-			-	:	<b>-</b>					-						- ¥													11
£111.AC-10	R0300 Photenicurus Promisia	Ŀ.	4. 4		1.6.1	4.10			NH	К.	DI	G.	Γ.,							- ¥.													
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115.AC-B	U6420479Haterophasia capistrata nigricapo				Υ.,			1					4																		1.2											1
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97145. AC-10	(175290)Lincinia meganhynches		-					. 9																																		4
¥346.AC-80	C789641jLusceva svecice				Ψ.,			$\mathcal{X}$																																		4
12147. AC-10	(\$173748) Calliepa pacteralia		-		Υ.,		1	¥				-				2.4					1		- 1								1.1											1
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97152-AC-6	US71811Ficedula parva				Ν.			Υ.																																		4
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9 133. AC-8CR3041 Turiloides mainstre				1.0		1.									1.			A.										1.1				1	1.1				1	1
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@135. AC-E0440040 Platerephasia capistrata regricapi	6 e				÷					÷				-				Α.		÷	÷.,				÷.,		-	1.1		-					1.14			-
92136-AC-6Q482239(Mandrape above					2.14	÷ .																						1.1		140		1.4						-
#107. AC-IF408003.aiothrsciutes			1.	1.	4.14				1.0	4	÷			- 61		1.4		A.				ā. 1		1.60			4			141		14			1.14	Sec. 4		1
ST38. AC-6Q482356Massicapa davunica						- 63					λ.					14						λ.					۰.	1.5				1.	11					1
#130.AC-GUSTURI/Muncicapa mista																											÷	1.1	1.00			1.						-
9348. AC-MP580391/Cercebichecgelactotes																1						4.1										1						1
2141. AC-IF498645(Copsychus malebarisse																										1.00			1.00	(m)		1.1						- 1
96.142. AC-JQ874827[Cymmit rubeculoides																																						1
9/141. AC-IQ175550[Nékaya sundare			1.1		1.1	1			1.4			1				1												1.1				1	10	10	1.14			- 1
#344, AC-ERE2240 Mussioga theistore																		A .																				11
¥145. AC JQ175283Esectria magarhyrshes				1.0										8				A.				1.1		1.0	8.5		۰.	1.1	1.0	18.1		1	10		1.1			1
9/146-XC-8CIII9041[Loccinia svecica																																						-1
92147. AC-KURP2040[Callingue pecturatio						-					-							A.;				4.1		1.00			-	1.5										- 1
SCIAE AC-EQREPORTING en cyanunus					4.14																											1.4						
9/140. AC-IQI76404[Tarsigar chryssess						- 6										1.1									- 0	1.0	э.	1.14				10	10		6.4	÷		- 1
¥150. AC-ICETABASER adula strephata																1												1.1					1					- 1
VISI. AC-GQ481891/Feadule albicity																4		1.										1.1				1						- 1
9152 AC-60571893Ficedule pava																																						
9/153. AC-DG70700(Phoanicurus frontalia					- 11											- 1						1.1		1.				1.11	1.00			1.1	1.1					- 1
¥154. AC-6Q682382Phoenikurus eydnimotus					8.1									11		1.1		A.				4.1								1.0		1			6.18			
155. AC-GU572036/Phownieuwa phoenicurue						1										1		A										1.1					10					- 1
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GUS72036/Phoenicurve phoenicurve							$(\mathbf{r})$											1	1.7	٩	1.1				0				10			14	۰.				
-GQ602627Phoenikurus erythminotus					1.9										1.0			4	11	η.,			۰.	4									*				
- DG70700(Phoenicurus frontialia			•			1			-									1	1.7	κ.,				1		1		1									
-GUS71891/Ficedule parva															. •																						
-GQ481891(Feedule atticitie												-	-					-			1.0																
- ICE Milel Frendulla dataphata																			1.1					•													
-JQ176404[Tarsiger chrysseus	11					9	- 6					9	5					3	6		6.5			1				1.1	- 6								
-GQ462738[Tarsiger cyanurus						1							•					4	• •					1	• •												
-KUM727HUCallingue performés						. 4							1					-	- 1	A : -			+	4		1.0											
-ACTIONATIE LOCKING SVECICE															. •																						
JQS75293Esectria magarhynches				-		1				0		э.	8.2						11	٩.,				1				1	- 20					1			
-EF422240 (Muncicipa theIntitie																			1.7	η.,						1.											
-IQS75550[N#kaya sundara						1	1						10	1.11		1.4	10		10		1				0							14			200		
-JQI74627[Cymmic rubeculsides																																					
JF498645(Copsychus mafebaricus				- 12		1				0.5	1.00								1.1									1			1.1						
-MESBERSE[Cercebiches galactotes						1	Ξ.										*	÷.			0.0		+	÷.													
-GI2571987 Municipal strikte													1											4	1.1			1.1									
-SQR0236Mascrapa devarica						Э.							1					1	1.1					1				1									
-iF4280023.aioffreis futee				1.7		0						Э.	1		1					κ.,	6			1		1.		 1									
-GQ462229(Muscicape aboxice													÷.)		1.4			4	1.1					4													
ED4094791aturophasia capistrata nigricape		÷.,		÷.,		. 4		4.1				-			-		÷	-1	- 1	h.,	1.4		÷.	4			-	. 4	-	÷.,							
-MHQ55800[Trochalopheron arythrocephalum woodi															1.0				11	Α.,							100										
4CR3041[Tursloides mainstre				1.1		- 1	1						10			1		1	1.1	η.,	1								1								
MEQUSMI7(Arg) a sofer earlie																			1.7	Α.,																	
JQ173067[Akippa paidicaphala						1							10			14			1.7	κ.,		1						1	10								
JQ15707Pelkineum ruficepo																																					
-MR0900113.attella hurneni												х.																									
-/QE79853/Pomatorhetus erythrogenys				40.0															. 1	η.,																	
GUN72120 Sylvia summaria						1	1				1		60		1.			λ.	11					ι.	÷.,				1.1			1.4					
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V 156. AC-BQ482576(Proencurus arythropathus	1.		¥			¥.																																
9 157, AC-6Q482171[Menticela savetile			w			. 16																																
9/158. AC-JQE754258Mentionia voltarius			W.			W.															1								1			1					1	
9 158 AC-6Q4635285eecda maunus			W.			٧					1																											
97 160. AC-JQ576380Elavicula caprata			W.		έ.	N.					÷.	2										2.1			10				1	14.5		1					1.	
9 161 AC-ROTHERES avicals Perseus			×			Y.																																
9/162. AC-DQ680479(Denanthe alboniger					÷ .	v																					-					1	1.1				1	
9 103 AC-60571994)Cenanthe penanthe			. W.			×																																
2164, AC-HMMMUD0/Convertine lugers						w.		1.			1.	1		1.		2.5					12			14	4.5					14.1								02
9/165 AC-MP795487(Decanthe finischi)						v					12						2.4					÷.,					1										1	
166. AC-01/571925/Cenanthe preschanka			×.			× 4				1.4					1.														÷.,									
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118. AC-87232239Oenanthe desets			Ψ.			¥				1		1		1.4		÷.,											1											
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9/170. AC-EFELSBO2/Zeethers dearne	1.1	- 14	14	10.0		1¥.					1.	2						1.23					24	1.				10	1.1				100	- 4			1.4	14
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112 AC-6002140 (Further Name	1.5				i a	. ¥			1.1	1.		1				10					14					2.4	÷.,								-		1.00	
GE173: AC-MICR3987/Turdus merule						¥.																															1	
92 178. AC-6Q482820 Tunkus ruficatile				-	÷ .	٧						1																				1	2.0				1.4	
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#176. AC-EU025542[Burnus pagadatiam		4.14		-		. ¥				0.4						2.5		1.4	÷.,		1.		1.	1.4	41			-15	1.4				- 11					1.
✓ 117. AC-IQ176301(Stumus malabanicus)			· ¥.			v					1.0						1.1					2.1										1					1.00	
STE AC-AV6828(Acriduthenex tridis			. ¥.			1.9									1.		٢.,								- 1					- 1								
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9/180. AC-KHA2500 Dicasulti enthreshytiches	1.0					¥																										1		- +				
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9 182 AC-ABI40102(Provalle collaris			W.									1				÷.,							÷	14			-	1.						- +				
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2184. AC-0Q482563(Prunelle futnessens						.¥			÷.,	1		5		114			c ii			÷										1.							1.00	
9/185 AC-EQ80580(Prunella atrogularia			٧			v																																
≥ 188. AC-JP957025@Matacida sinama			٧	-		٧						10			1				10				2.5	1				2.5				1		- 4			1	-
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V 156. AC-SQREEN/Promicunal arythrogenous			-	-				-	-		۰.				-										. ¥																
¥157. AC-6Q482171]Munticola savatilis			-					-	2		۰.				÷.,	÷.,									. v																
W158, AC-JQ175415(Mentionla witherise		. 4	-		- 1			-	-					+											. W											24					
W158 JAC-GQ482823[Savicala matarus		. 4	-		÷.,				э.		۰.			*		۰.									V																
160. AC-IQS76380(Sevenia captate		1	1	-		8		-	20					1		÷.,									. 4												1				
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5/162 AC-DQ60479(Ownerthe alborriger			-		ς.					÷.,	١.			20		1				- 1		1.4			. v																
W183. AC-60571894(Oevanithe cenanthe					• •			-			٥.			41		•																									
SE164: AC-HM04000;Conarthe layers		1	-					-	2		з.		1.00	2		- 1		2	-	- 1					- 4	Ča.	1														
92165. AC-MP795487[Delanthe firschil			-	-	÷.,			-		-14			10.	-	10			-	-	• :		1.4				14		- 1	6	÷											
9/166. AC-02571925(Denarthe plexchanka		÷.,	-	ч.	÷.,			-	-		٠.	-		-	-										1.14																
94387. AC-DQ55948 Denanthe vanthopsymmia		÷.,		-				-	4			-	-		-										. v																
168. AC-89233239Ornanthe desets			-					-							-										. 4		÷.						÷.,								
¥ 169. AC-IF4888023Desonite kabelina		1						-							÷.,	÷.,									· *																
9170 AC-EFILSBUJZenthana daurna				н.							۰.			1	10										. v		٩.						2.1								
97171 AC-6Q4638187unkes viscovenat			-	8		6.9						-		*	-	÷.,									. 9																
2172 AC-GUIT2145(Turdus Harus								-						*1											. N	1.						1.									
SE173 AC-48Q82987/Turdus merula			-					2	2		۰.			20	2									ε.	. V																
12 174. AC-GQ482870(Turdun tuficatio						1.1			2		ι.			41											. V								22								
#175 AC-KCRORORIStumus centra				×.		6.9						1		2				×.						а.																	
92 DK. AC-EU025542(Stumus pagedanam		1 1	÷	τ.	N I	i w	1.1	Ŧ	1	T A	i +	К.	D.	1	á :	t.	1.								. V									27.		1.					
SETT AC-IQUINITISTUMUE materialized		1.1	-	ч.				-		÷.,	Ξ.	-		-	*	+									. 4																
9/17E AC-AV68206Acriduthanas triatis				н.		1.4		-	20					1											. V	1.															
¥175 AC-\$F4M296(Acriditheres Nacus		1.7			N 1	t w	1.1		30	τ. κ	4.4	. 80	D	1	6	Ŧ.									. v																
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2101. AC-M840290951Aethopyge siporgia signaraia		1	-			1.4		-				4	5	-	+	- : -									. 1																
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Witterne	and the second sec	1.8		4	4.4	. 6	1	1	M .	1.1	1	5	R 14	1	N.	10	1.5	. 8	5	۴.)	4 8	6	6	0.0	w.	8	7 9	н	1.	F 1	1.9		5.1	4.9		w.	Υ.	1.1	1	1 -
¥125.AC-0	US71644(Sylvia stateireattia					2.2																						1							-	-	2.1			
94138 AC-10	2018223(SyAira mystacce					1.1												1											12		1.4	14.1	à., 1			-			-	
VELIT. AC-6	US721205 Sylvia communia			11		1.2					1				1.1		2.1					1				10						24.1	4.1				20			
128 AC-10	(17951) Ponatorhinus erythrogenys																														1.0	14			1.00		- 1			
1212 AC-M	0000011 (Laticitie Incremit					11	14		γ.									1		21								1	12			14			1.			1.4		
918 AC-R	22/5/707/Pelkinnum suficipe																						10								1	1.4						1		
VIII AC II	(171057)Akippe provide sphala		141			1.1			÷.,		14						2.1			1		14	1		1.4						1	14			1.2		201			1.1
9(132 AC-N	HOSSN7/Wgra carlei earlei					1.5					14						2.1					1.						÷.,									- 1			
9210.AC-0	CK30041(Turdoides maisolmi		123			1.2	2.4		- 14		14							1		20		14	100		1.23			1.							1.		2.1	1.4		
¥114.AC-M	64255500(Trochalupteron erythrocephalum-wood)					1.1	1.1											1.														12.1			1.0			1.		1.141
1218. AC-E	U420/07/Heterophesia capistrate highcaps										1.						2.1					1.												-						
¥136.4C-5	Q4822209(4Auscicepe albeice										1											1	10										1					1.0	10	
12137. AC-18	Althib) airthris lutur		1.0		1.1	1.1			÷.,		1				1.1					20																1.0				
9418 AC-6	Q482236(Mussicapa dauanca					1.2			20											20								1											1	
VIII.AC-G	US71987gAuscicepe etriste	14	1.	10			2.4	14		1.14	14				141			8	14.3	10		14			1.	4.1	1.14			1.14	1.1			÷ .	1.10		÷.,			1.1
1411 AC-N	P380300 Cercutrichas gelectutes					1.1	1.0		4.1								2.3						1					1			1.0	18	1.1				• •	1.10		
141. AC-II	400045;Copsychus malataricus					1	1		20		1						Ξ.	1		20		1			1						1			1.						
94342 AC-ID	204627[Cysens) rubecoloides					1.6																	1.					1.0				180			1.0					
SPEAK AC IS	(075050(Néltave sundare	1.4	1.47	1		1.10	1	14			1.4				14			1	141	÷.,	114	1.0	1		1.47	10		1	1						1.0		- 1	1.0		
9414K AC-D	42224UMAsciopa thelessive					1.5	1.4	1.01			14						2.5	1	1.0			14	1					1				+	-		-	-	-	1		+ (+)
14145, AC-10	(275290)Loscinia magarhynches	1.4		1					-		1.									•		÷.,						÷.,	έ.			14.1			1	-				
141346 AC-40	C789641jLascinia svecica						1				1.6						ι.					1				64 C - 1					-	-	-			-				- 7
12147. AC-81	di73748[Calliops pectorelis		14.1				1		-		1		2.1	١.,						-		1						1.0					-					1.1		- P.
141 AC-0	Q482558[Tarsiger Qamarus					1.1	1.0										6.1	1					100					1											10	e (*)
94140, AC-10	201404[Tarriger chrystellan	14		4		1.1	1.00	14			1.1						÷.,	1.0				1.	10		1.4			1.	10								- 1			• •
9150 AC-10	(0.14844)/Ficedula strephiata					1.1											6.1								1.0							18.5			1.00		80			
151. AC-6	Q481001;Fixedule albicitle		1.	1		1.6					24						2.1				11	24			1.				10				10.0					1.0		
97152 AC-8	US7LB97Ficestvia pava																2.3														-			• •			- 0			1.1
92111 AC-D	900700(Phoenicuna fricktalia				1.1	1.1	1.0				1					1.		1				14			1.0		6.4					141	10		1.0					
54154. AC-0	Q452362Phoenicurus ey/dwenidus																λ.																			1.				
17.155, AC-0	US72026/Phoeniculaus phoeniculus	14			4.14		1.4	4		1.14	14					4.1		1	-		1.1	1.			1.4		114	1					4		1		- 1	1		
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12186.AC-18	957025/Metacida cinama		1.4				 						1			1.4				1			1.14					14					15
Se 185 AC-00	Q402560(Prunella strogularis																																11
VIIK AC-04	Q682563(Prunetta futrescena						 					1.		1.10		1.0							c in	10								10.0	11
97183 AC-60	Q48(585)Prunella himalayana																															-	-11
¥102.AC-48	88431552Pruvella collena				1.1			2.4												1.1						1.0							11
¥30.404	HRZ9095jAethropyge siponeje siperaje																						1.5		1.1								11
97300, AC-43	#42617(Disasum wythrenhynches					-6				- 1					- 1	14.		140					1.10							-			-11
₹18.AC-0	494099 Actidotheres fusicus																					1	1.7	10				1.00	1.1	1		10.0	- 18
217E AC-AN	W663349Acridotheses trictio												÷.,				÷.,			÷.,	2.4	Sec										10.12	-16
WITT AC-JQ	STREEStumics investments																						19			120		1.0		-			1
WITH AC-ED	/525342[darrsus pagodanam						 				÷. •	1.00				1.00				+7			1.0			1		-				20	-10
9175 AC-60	ACREDITION CONTRA				2.4																									1			-11
¥196.AC-00	Q482820(Turslee rufeatile		1.0			4	 							1.1			1.1	1.0		1								1.1				-	11
¥113.4C-68	K252587)Tuidut merula																								• •	-				-		14.0	-11
9/172 AC-U	UD2545/Fundus idenus				÷ .	1																	1.16			140		-					-11
¥111.AC-80	Q4628827 yrthus vischvitnus.							1.1					1.																			14.5	11
9175, AC-EF	11.5002)Zanthere dearrow					- 20												1.1									1.1						-11
¥108.AC-04	exection and the same section																															-	-11
VINE AC 4P	212223)Cenanthe deserts																							-						54.			-11
9-167, 442-100	200649 Desarthe santhspromna																							-		-				-		1	-11
¥185. AC-01	1971005(Cenenthe pleasthenke																									-			1.1		-		-11
9185 AC-M	F795487) Crevanthe Brochil																											1.2		121	2.12	27	-11
#164. AC-H	MD460701Clanarithe largers				2.2																			1.		12		14		1.		G4 6	41
¥103.AC-00	(571994)Oenverthe senanthe																									1					202		-11
¥162. AC-DO	26834790 Ownerthis alborniger				2.2	2																										120	11
¥161.AC-10	07808005evicals ferreus																									140		1		1			-11
#181.AC-10	D7638054emple caprete		- 11		1																					1		1.	1.1				-81
¥150.AC-00	O46262323eeccafa masanus																												1.1			12.5	-11
VINE AC-10	S754253Mereticula colitarioan				10																		2.2	8	2.2			12.	2.2	1.1	14		н.
¥197.AC-60	045/171/Marchingia caustility																																
¥156. AC-00	O462376/Photemics.nue.ary/threspatinue								10.00																							1.0	

Q Nates	LHLAGISSILG	5 A T N F I T T A I NM K F F A L S Q T Q T F L F V W S V L I T A V L L L S L
92 156. AC-0Q462376(Phoenicuma erythrogethran		
¥137.AC-6Q452171(Monticola savatilits		
9715E. AC-IQ575415[Montisola solitarius		· · · · · · · · · · · · · · · · · · ·
V138. AC-GQ4025225aacsia maurus		• • • • • • • • • • • • • • • • • • •
9/165 AC-IQDN280(Seconda caprete		· · · · · · · · · · · · · · · · · · ·
#160. AC-R07R080(Sevicite Peneus		. <mark>.</mark>
92162. AC-DQ6E1470(Cenantitie alborniger		• • • • • • • • • • • • • • • • • • •
92163. AC-665708HIOenanthe cenanthe		· · · · · · · · · · · · · · · · · · ·
9/164. AC-HM348870)Ceruethe lugers		· <mark>·</mark> · · · · · · · · · · · · · · · · ·
216. AC-MET95487(Devanthe finich)		• • • • • • • • • • • • • • • • • • •
166. AC-GUIZURS(Converting plancharika		• <mark>•</mark> • • • • • • • • • • • • • • • • •
9/187. AC-DC258808/Delanthe landhopsymma		· · · · · · · · · · · · · · · · · · ·
₩ 168. AC-XP212228/Deventhe deserts		· <mark>·</mark> · · · · · · · · · · · · · · · · ·
32388 AC IF4888023Denorthe sabeline		· · · · · · · · · · · · · · · · · · ·
2170. AC-8F315902;Zenthera deume		• <mark>•</mark> • • • • • • • • • • • • • • • • •
2111 AC-6Q48280(Tunks viscous		• • • • • • • • • • • • • • • • • • •
(€172. AC-GUE/214)(Fundua diarua		. <mark>.</mark>
SE173. AC-MR082887(Fundue menula		• • • • • • • • • • • • • • • • • • •
92176. AC-GQ482870[Turslue ruficatile		• <mark>•</mark> • • • • • • • • • • • • • • • • •
¥175 AC-KCA090085fumut contra		• • • • • • • • • • • • • • • • • • •
913% AC-EUEIS541/ihumus pegistariam		• • • • • • • • • • • • • • • • • • •
STIT. AC IQUEDRIShuma malekaricut		• • • • • • • • • • • • • • • • • • •
9/17E AC-AVMRIDEAcoldstheme tratis		• • • • • • • • • • • • • • • • • • •
W178. AC-(F484)/MSAcrolotheres functor		• • • • • • • • • • • • • • • • • • •
100 AC-KX42607[Dissessm arythronitynation		• • • • • • • • • • • • • • • • • • •
14 181. AC-MHE29035(Aethogyge siperaje signeraje		
182, AC-ABI41050(Prunelle collerie		• • • • • • • • • • • • • • • • • • •
9/183. AC-GQ482565 Prunella himalayana		• • • • • • • • • • • • • • • • • • •
12136. AC-GQ602560(Prunella fulvasiana		· <mark>·</mark> · · · · · · · · · · · · · · · · ·
SF385. AC-0Q482560[Pruvella strogularis	a state a state a state of	• • • • • • • • • • • • • • • • • • •
188. AC-399530250Metacilla simeraa		· · · · · · · · · · · · · · · · · · ·
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9156. AC-DQ482058(Photeniculus arythrospectrus																1																1						
W157. AC-0Q48/371(Monticula savetile																																						
WINK AC-IQ075425(Merticela selitarise						1	1		1								Ξ.		1			1								γ.,			1		1			
19 159 AC-GQ482823[Salicola maurut																																						
≥160. AC-JQS/N180(Senirofe caprate						1	1															2.4																
9/161. AC-IQUMINISericsis ferreus																						1																
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9 363. AC-005739HIJDenaithe senanthe						1										1.	λ.					14															2.5	
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20167. AC-D255BRIOesanthic santhogrymma				14.0												1.						1.0	÷.,															
9/16K. AC-KPQ52228(Cenanthe desets				14.11		1					1.14					1.						24										114	-		1			
2308 AC-IF488802(Denanthe tabelline						1.	÷			1		÷.				14	۰.					1																
#175. AC-EFS15802[Zeethere deume																	÷ .	. A	12			÷.	11							γ.			4.1					
9 171. AC-GQ4EIREI Turdus viscologius						1												. A							1													
2172. AC-01/972149/Further illenan						1.			1.0									. A																				
96113 AC-MK202087/Turdua menula			1						1.									- A														1.						
¥178. AC-SQ4E2870 Turslus ruliantia				14.5		1			1.1									. A				1	1		1			1.1			1.1							
9 175 AC-KCK0808(Stumut contra																- 4																						
2176. AC-EUS25543/Sturnus peginterien			1.	1911					12							1.4							-									1.4						
SETT AC-IQDESS[Stamus malabancus									1.0								÷.,																					
217E. AC-AV66206[Acridathenes tratis							Ξ.																Ξ.													-		
97.079. AC-EHBIOR/Activities Nacia						1.4											÷.,					1.	÷.															
92180. AC-IOHOSOT(Disasum arythreshynches				16.5		1	10									1.						1	÷.					1.0				1.40						
W 181. AC-MHR29095(Arthogryge uponge squeepe						1.																																
182. AC-ABBA3103Prunelle colliers							1										4.1	1.14					÷					1.				1.00	4.1					
9/183. AC-GQ68060(Prunells Nimulayana																						1.1																
92184, AC-SQRE2562[Prunelle fulvescene			1			1.	1			ч.	1.1					10	÷ .					1					÷.,					1.1						
97385.AC-6Q482580(Prunells strogularits																									14													
#186. AC-19953025@Antacida sinama							1															1	-		1						1.1							
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94388. AC-GQ482293Mutacitie citrente								1.10	-								1.1	P												1
W188. AC-KY754508 Metacilla alba				4.0													. 1	C					1.							. [
92188. AC-0Q481343(Anthus godiewski)																	1.1	1								10				1
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¥192 AC-683/L712(Anthus protensis		-		4.14													. 1	1					1.							. 1
9/193. AC-6Q481340(Anthus Instigueni			4.44	4.14						1.							. 1		÷.						1					- 1
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97.196. AC-GQ603256 Anthrus nubescens		-			-												- 1								1.	1.1				- 1
¥ 187. AC-GU57L754(flombycille gaméus												۰.				-	- 1			1.1	1.									- 1
9 196. AC-69252196P-pocetius ampetinus					1		- 11	к. р	1.1	5 T							- 4			. 8	τ.									41
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204. AC-GQ682808(Enemopratina mangelica			1.3	4.14				4 . 14									- 1	1					1.4							1
205. AC-GQ602553[Laucoutiche namoricola		1.		4.9				6.0	- 1								- 3	Caller 4		1.14	14.7		1.4	4.77	1.14	1.1				- 1
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₹232. AC+6Q462838/Serinus publiks		1	1.1			0.00		• •			÷.,						- 1	C + + +												41
¥213. AC-6Q4814855pinus spinus		(* <mark>*</mark>			1		+ -		-		-		-			-	- 1	lan a					1.							81
97234. AC-IQ/14718(Entireiza melanoogihala	P. 7						+ -		- 1								2.3													- 1
215 AC-KCK20213[Evilianiza Invarinage																	- 7	Co							1.4	1				41
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¥190. AC-0	Q481343LAnthus godRevolici			×.																																					11
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97100. AC-0	Q481340, Anthus hardgeans						Ŷ				1																														11
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9105 AC-0	Q48136QAnthus spinulatta					1.	N																1		1		1								1.1				1.0		411
@106.AC-0	Q483356(AMPus rubescent			N.			.9																																		411
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9-136 AC-8	P252198Phypocolius ampelinus						×					Ξ.																													11
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12201.AC-0	US71829Concethreiates exceptioned			Υ.											140												1.6								1.0						
₹202 AC-0	Q482529 Carpodecus rubicita			W																																					11
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9-206.AC-0	Q483479Eexana flavinostre			N.			.¥.					4.1		0.4																					1.04						- 11
9/208. AC-0	QNR3455(Linaria cannabina		1.1	W.			v	-		1.1	1				14	+7	÷. •					-114		-	-		-					-	27	÷	1.00					1.1	- 11
9738.AC-0	R057ER58BLoka-curkietabla			×.																																					14
¥211.AC-8	AOS2003/Cardualis cardualis		1.10	W.			. 16														1.1				1								1		1.0	1					- 11
P212.AC-9	Q48263RSerinia publika			×.																																					14
¥213, AC-0	Q48149535pimus spirnas			Ψ.		1.54									1.																					10					-11
97214. AC-1	Q074776Emberiza melanocrythila			N.			Υ.																		-																114
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9/180.AC-8Y	754258 (Motariilla alba				1.0		1.			1.			2.5	24					. A	1.					1.			1					1.1				1.1		1
92190.AC-6Q	481341(Anthus godiewski)														1.0				A																				
9101. AC-07	252567 (Anthone campiontrice						1.				4				1.				A				G	1				24	1.1		1.		10	- 60		1.14			1
¥192. AC-60	\$71732(Arithus protences															τ.																							1
¥101.AC-80	481340(Anthia hadgeoni									24							÷ .		A				÷.	ς.					1.1				÷ .	1					
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92196 AC-00	AB1158(Anthus nubescens																																2.2						
9/107. AC-60	571754(Bombycille gemain																		A.	1.						-									÷.,				
94196 AC-49.	2521369Hypocolius empekinus																. 1																			1.1			1
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#182.AC-60	WE152RCarpodecus rubicilia														1.																								
₩201. AC-EU	847NS/Carpodacca: thura											-			140							1.4									141			- 62		11.	1.1		1
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14205. AC-6Q	x80053(Lessontiette memoricola				-	1	1			1		÷.,	÷ .			-							1	ς.				1.	1.1			-		1.0		1.14	5. 1		1
9206.AC-6Q	AG3040 Lesconticte Brandti																																						11
W107, AC-FI4	6325899Nodespice aborists		27.		1.00	4.54	1.	20		-	4	2.1		1.4	1.40	-	40		1.4	-		14	64 C					6 e 1	÷.);	1.1	1.4	- 17	1.14	-	4.1		5.5	1.	-
9-38 AC-60	AEL479[Largela flavivosters																																						
9/209.AC-8Q	483455[Linaria caretabina		-					-			-	÷.,				-			1	-			÷.,						1.5			-			-				-
¥238.AC-60	571356 Ecéa-cunivestra				1.0																																		1
12211, AC-58	Q62090 Cardonin cardonin						1.			1.4			1.1											6.4				1	1.1			-		10.0		1.1	10.0		1
¥212 AC-90	AB2628/Serinia publics									1																											5.4		1
211.80-00	#83485[Spinus spinus										20	4	1.1									1.4	1				1.9	14					1.14			1.14		14	-
97.234 AC-H0	174778(Embertra melanoophala																																						1
9215 AC-KG	K20223[Emilentice Inserticegie										1													1.5	1.00		1.	÷.		1.0			1.1	16				1.1	
¥215 AC-60	571957gimberios calandro																											1					1.1				S		1
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9187. AC-68	171985@Antanilla flana									-											5																		.1
¥188. AC-00	4822503Motacilla citreola																																						- 21
FIRE AC AVE	154556 Metanika albar			1																								ς.			1.1			- 20					
198 AC-6Q	ett 34) (Anthur godlewski)																																						
₹191. AC-870	53167(Arthus campastris																					ί.																	
94192 AC-60	5757325Arthus proteinia																																						1
¥101.AC-8Q	REDRO Anthus hadgeani			1.		1											1					ε.							1.1		1.1					1.			
¥104. AC-087	571250 jarthus covinus																																						1
¥185.AC-6Q	ALLIGARITUR spinistette			12			1.		1.1						÷.,		1	1.5										1	11.5		120		1.1	1.1		12			1
19196 AC-6Q	411 201 Anthus rubescens																																						1.1
107. AC-68	D1754(Berrilyo)Te genalue			1			1								-			1													1.4			1					
€198.AC-691	521999-typocellul ampelinut														- 1																								1.1
#100.AC-MK	262313 Friegilla coulebe			1.	÷.,		- 22		1	-							14	- 20		1			- 2					ά.	2.2		1.1		1.14	- 22		1.	÷.		- 21
WIND AC-BU	571454Eringilla monthingilla					1											14	1.1										۰.	1.14				1.1	10					1
¥201. AC-017	S2329Coccathreaster coccetheauter																	1.1																					1
9.002 AC-6Q	481529 Carpodacus rubicilla																																						1
2201. AC-818	H7701 (Carpodation thora			1.													1	1.0		1.0									1.14							1.0			
94394 AC-6Q	402000Eremopratina mongolica																																						1.1
¥ 205. AC-6Q	602053[Leuconticte nemericole			1		24	1.1				10						2	10				ι.							1.1										1.1
98.206 AC-6Q	ACCOMPLANATION (HINNI)																																						1
12207. AC-FH	65352/Phonicognics initialista			1.1		1	1.1										14	1.1										ά.	1.1	1	1.0			1.1		1.2			1
14 20K AC-6Q	462479(Limarka film Arestin)																																						1.
9200. AC-6Q	461457(Laturia cantabina									-				140															1.1										1
97.00 AC-60	5728588.cola-curvinistra																1	1.1										6	1.14										1
9211.AC-MR	362083 Carduadia carduadia			14		1	- 61								-		14	- 60		24		4.54						G.,	2.6		145		1.1	- 63		1.4			- 61
97212 AC-8Q	6026/05minut publics					14	- 63					1					η.	10										α.	1.14				10	- 63					1
¥213.AC-8Q	ABSARDS Spirmus aprimus					1	1				+						-	-										-	1.10					1					
214, 45-103	P&T05Emberga melanocephala																																						
12215. AC-8C4	430/213(Eminanina Insankogia					1.4						1		1.			1.4	2.5										Ξ.	1.1			6		2.1					
97238 AC-60	571857@mbelan calavaho																																						1
¥217. AC-354	001.30 Embarios fucutio			14		1	10							14			1	10				1.1		1	* 3		1.6		1.1		1.		1.1			1	-	1.1	1
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¥190.AC-GQ	AND WILLIAM OF A CONTRACT OF A																							£													
#101.AC-42.	252167 (Arthus Campatris															-								τ.				1.00	-	 1.00			1				
#192 AC-60	S71712(Anthus protectio																												-	 			-				4.14
¥100.AC-00	ABLING Anthus hadgeant																																				4.4
¥194 AC-00	S7L2N0 Anthon convenient																													 14	10		1			1.	
9105 AC-60	NELISCANDNA aproviden					1.1																1											1.2				4.54
12106 AC-00	ARG200 Minimum nutrescena																																				4.5
9/107.AC-00	671754@ombycite.genuiun			1.4	-					-						12				- 11	24	1.2			0		÷ .	1.2	-	 -	+		-			-	4.9
¥188.4C-68	2521969-5 pocolius ampelinus																													14		1.10		+	+ - +		
9/100 AC-58	O62311Fringite contelle			1		1.				1.0						1.1				10		1			1				-	 -	* 3					1.4	
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12201.AC-50	BTERS Concernmenter ascortheauties					2.4	10															1	-		1.					 			1				4.9
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₩200.AC-88	647705 (Carpendacus Woars			1.4					1.1							14	4.1											1.0	-	 -			-			1.0	
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9200. AC-00	963455jLimaria camtaltina		1.14	1.	-					-						14				1.11					1.	Cell's		1		 +						1.4	1.1
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HE215 AC-KC	K30223(Embarica Intervicego						- 60																	ε.,													1.00
97236. AC-00	070807/Emberica calendra			1.		1.1										1.0														 	2.1	1.10				285	1.10
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C-IQ074778Emberiza melanocephilia						2															•		1				-	* 2		0.0		1.1	. *	-		2
C-GQ482405(Spimus spimus							201																+											1		
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C-MIQ62030[Carduelis carduelis		180		1.1				1.11									•							1				10.1							• •	
C-G05719583Loea-curvinutiva																																				
C-GQ661855jLinaria cannatsina		14.1			1				1.0	1					1				1.4	1.47	÷	-			1.	14	-	-			+		-			
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C-EUB47705)Cargendiatum Houra					+	4									+	4			0.0							1.0	-	1.1				1.1		-		
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9 222 AC-MP580075[Embering strinilate								1. 1			121						14				1.4					- 1-	1.				1.		
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¥216. AC-61	S71807Embarina calandra																													-	-		-					-	- 11
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¥238.AC-60	(401747)Embarina Iria																																					- 1	-11
₩218.AC-60	ARTIMEmbelog solevalla																																	1			24	- 1	-11
¥220, AC-10	977676/6mbarius stavvarti					÷.								1																							2.6	-	- 11
97.323. AC-60	2483772(Emilieniza Inuciricapliaios																																				1.0	-	-11
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