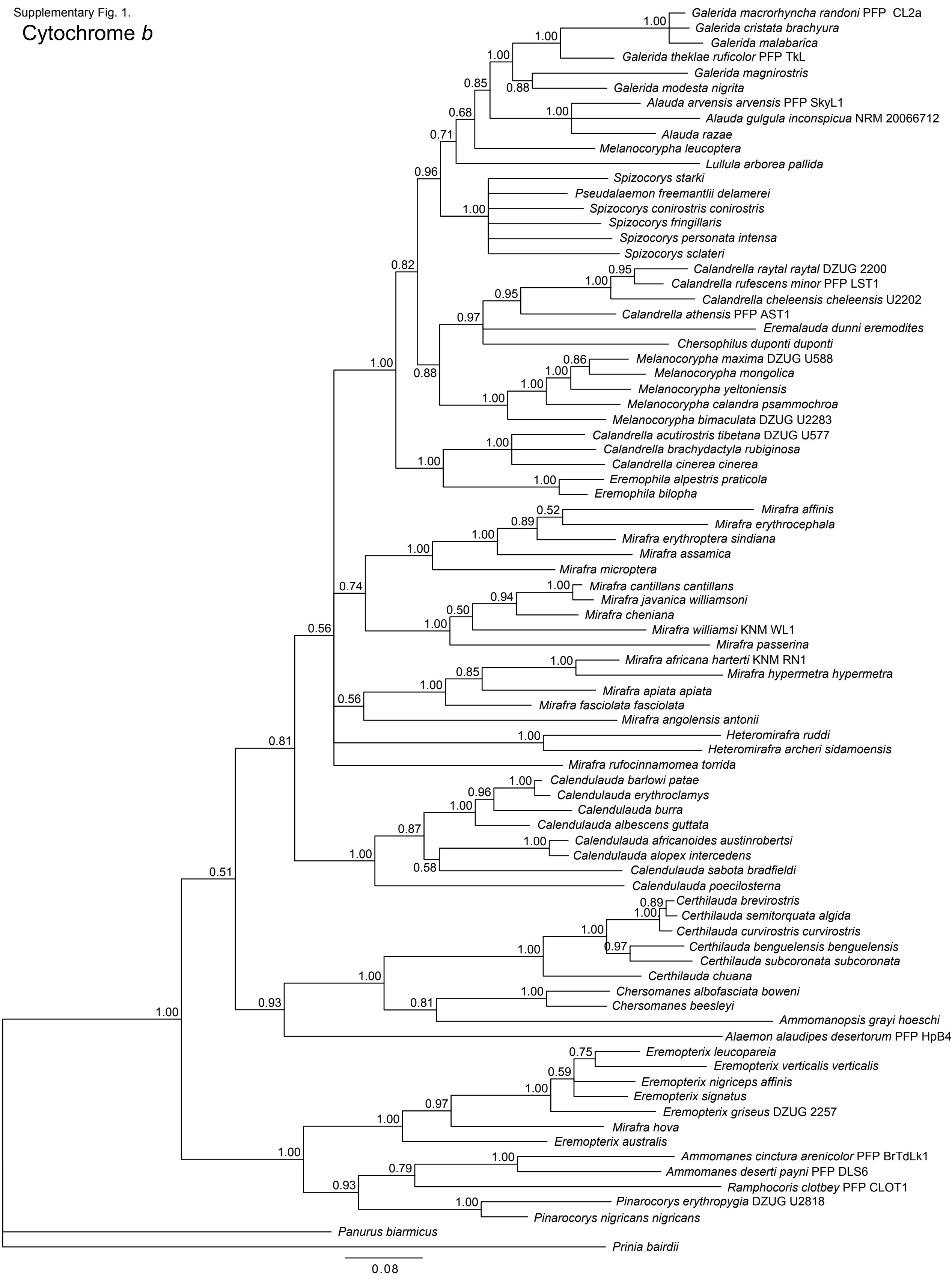
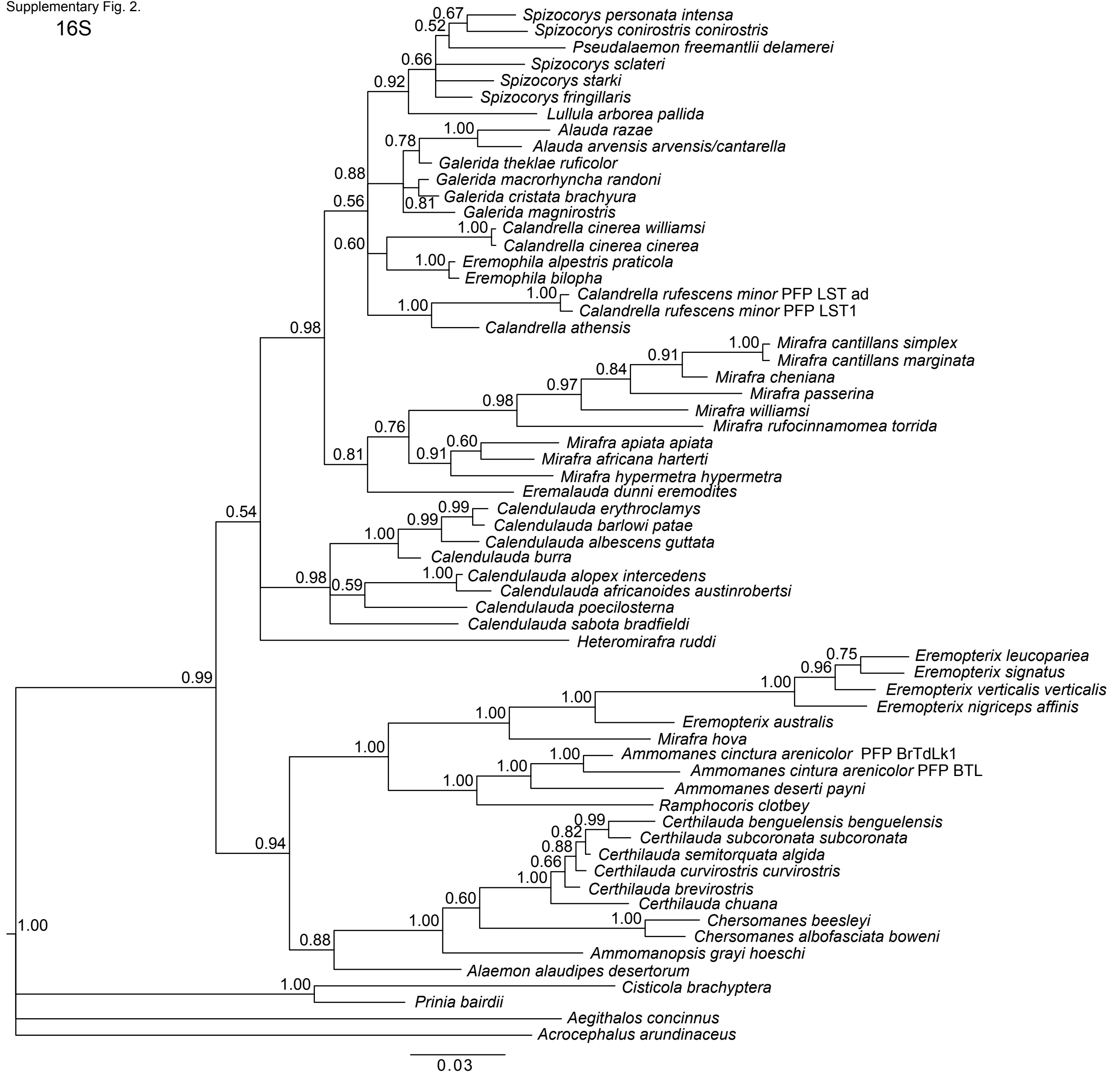
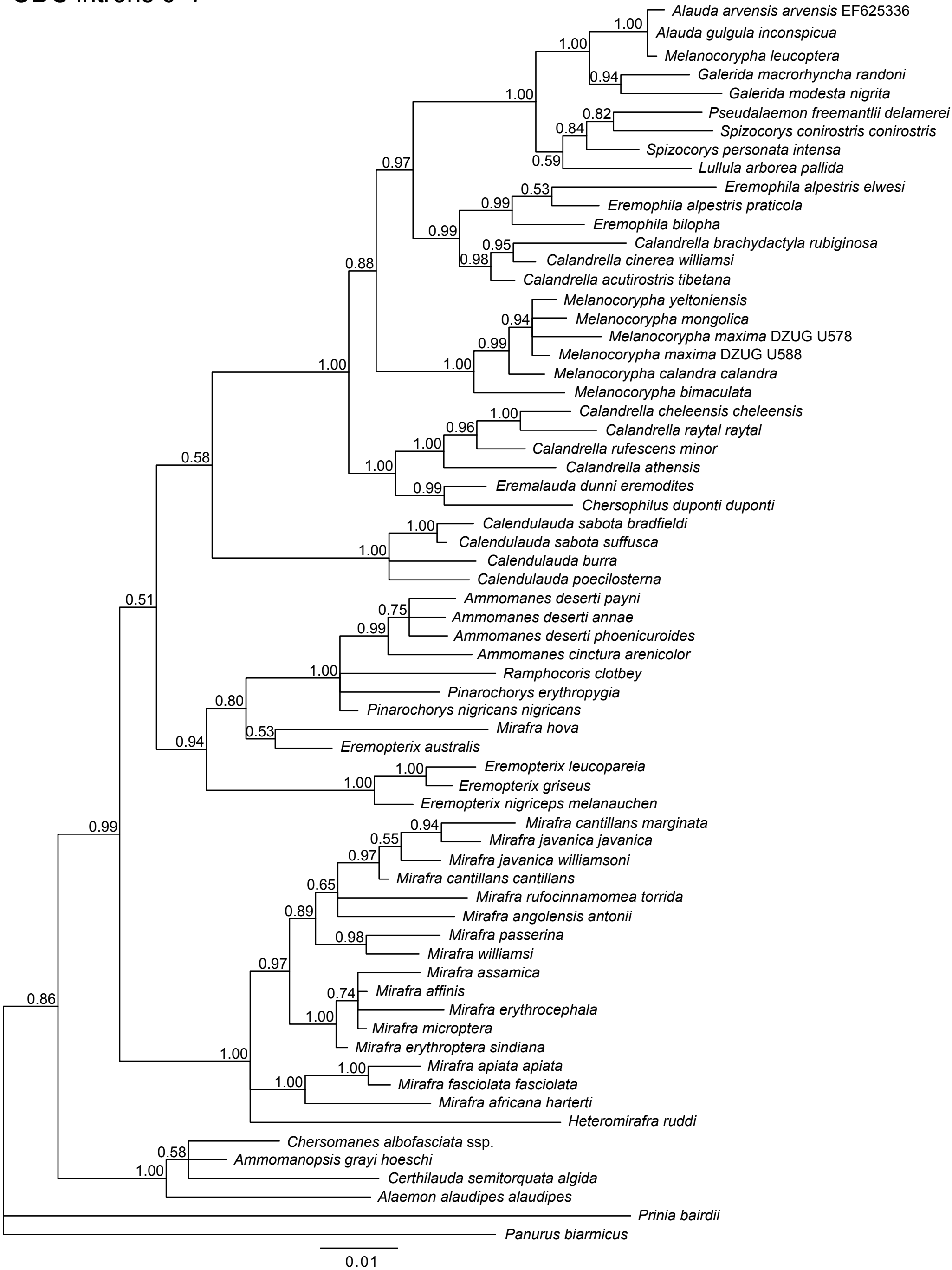


Cytochrome *b*

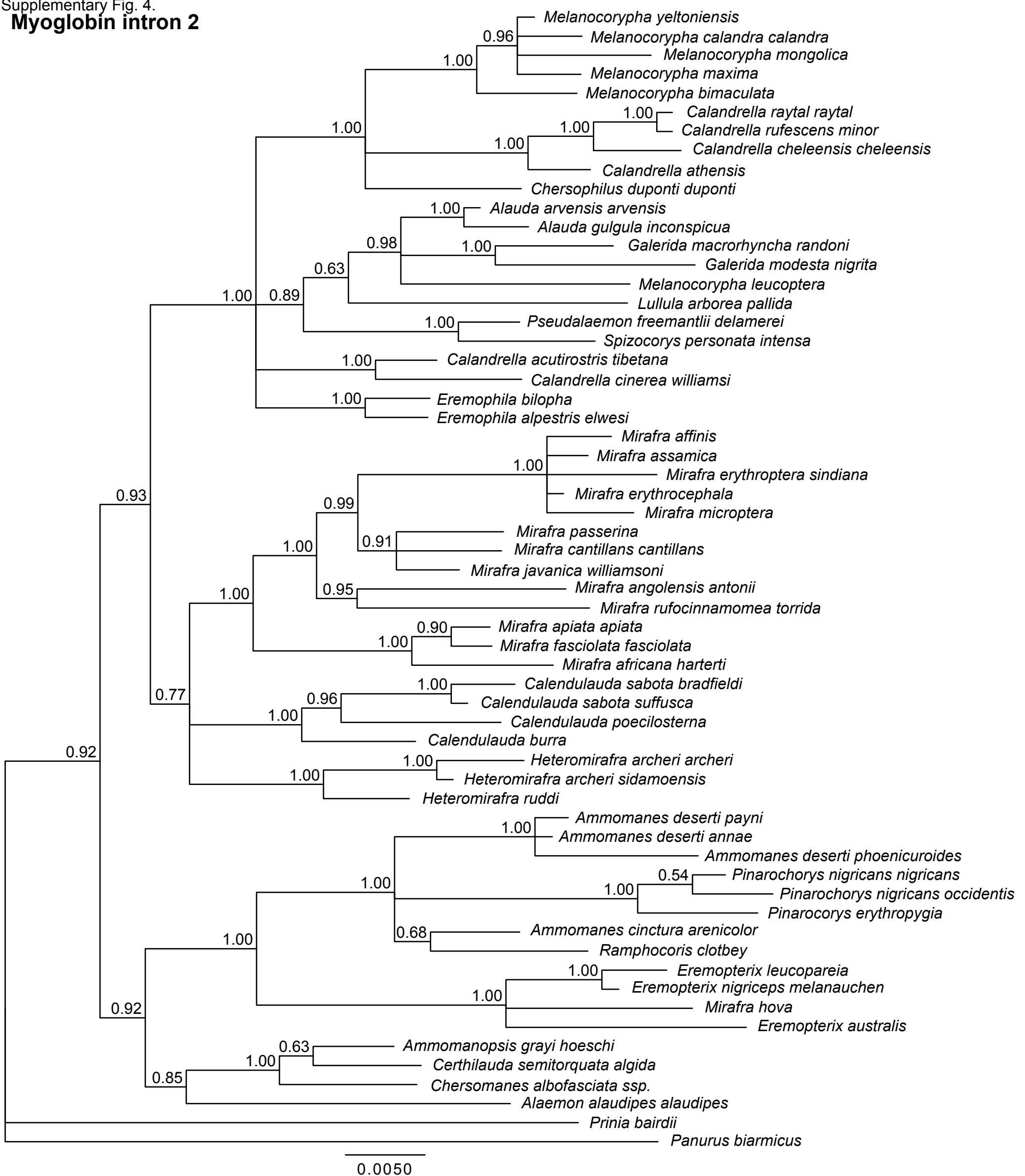




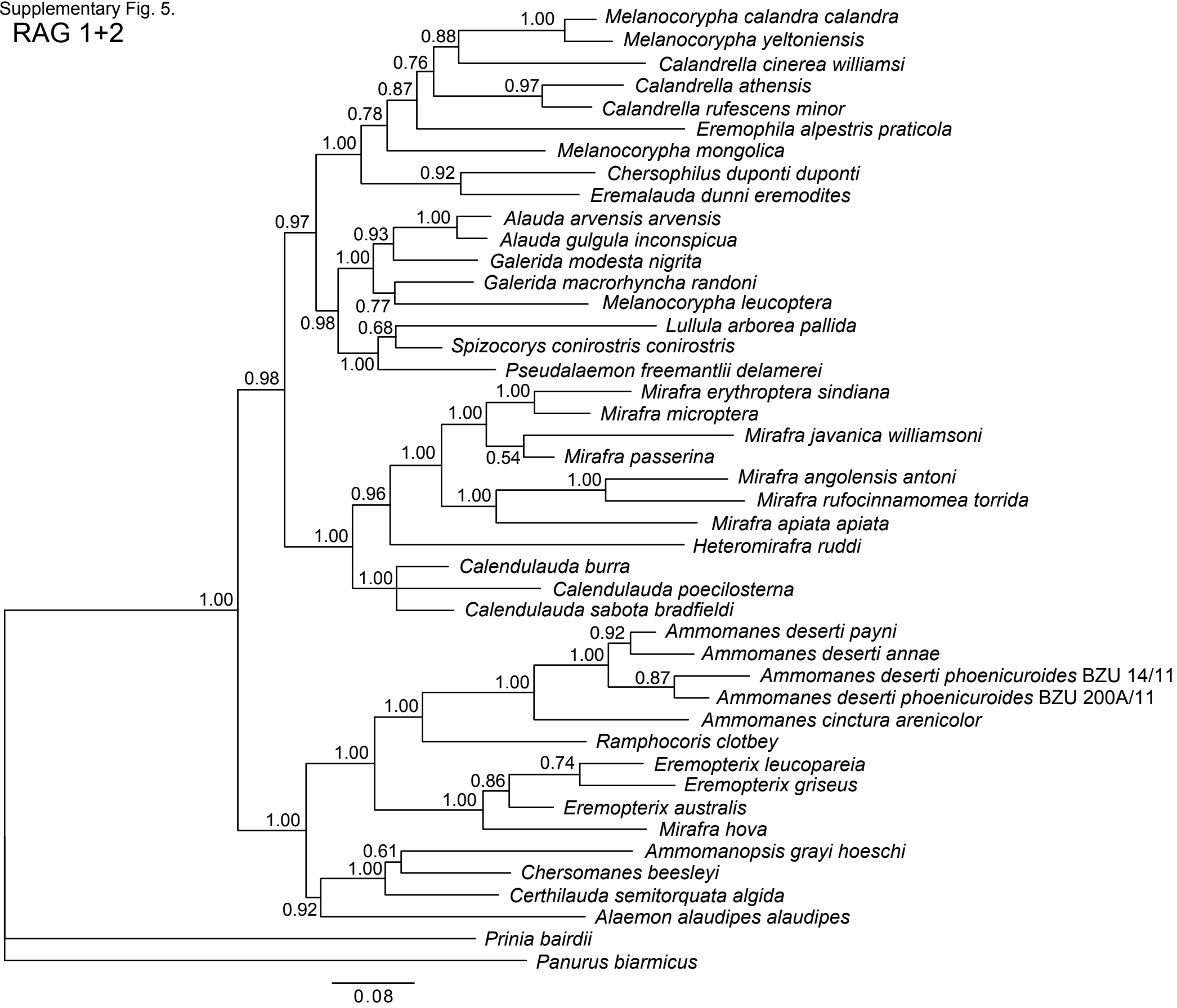
Supplementary Fig. 3.
ODC introns 6–7



Supplementary Fig. 4.
Myoglobin intron 2



Supplementary Fig. 5.
RAG 1+2



Supplementary Table 1. Primers used for amplification and sequencing of *Pinarocorys* samples.

Cyt b	Forward	Reverse
1344F	5'-AGCCTCCCTCTTCTTC-3'	1444R 5'-AGGGTGGGGTTGTCTAC-3'
1544F	5'-CGGCCAAACCCTAGTAGAATGAGC-3'	1644R 5'-GGGGTTGGCGGGTGTGAA-3'
1744F	5'-TCCTAGGAGACCCCGAAAAC-3'	1844R 5'-TAGGACGAGAATGATGGTGAAGTA-3'
Myo	Forward	Reverse
2144F	5'-CTGTCAAATATCTGGAGGTA-3'	2244R 5'-TTGGAATGGGAAATCTAA-3'
2344F	5'-AGAGTTGGGCTTTCATTTAC-3'	2444R 5'-GGGTCCTCCAGGGCTTACT-3'
2544F	5'-TGACTGGACACAAGGGACATA-3'	2644R 5'-GAGAAAGAAAACTGAAGGAACAC-3'
ODC	Forward	Reverse
2944F	5'-TTACCAAATAGCAACTGA-3'	3044R 5'-AAAAATTCCAACAACAT-3'
3344F	5'-TGGCAGCTCAAATC-3'	3444R 5'-AGGGAAGCCACCACCAAT-3'

Appendix 1. List of samples (in alphabetical order), with GenBank accession numbers. New sequences are in bold. Taxonomy follows Gill & Donsker (2012). ANWC – Australian National Wildlife Collection, Australia; BZU – Institute of Pure & Applied Biology, Bahauddin Zakariya University, Multan, Pakistan; CEFE – CEFE, Montpellier, France; DZUG – Department of Zoology, University of Gothenburg, Göteborg, Sweden; FMNH – Field Museum of Natural History, Chicago, USA; MNHN – Muséum National d'Histoire Naturelle, Paris; NMK – National Museums of Kenya, Kenya; NHMO – National Centre for Biosystematics, Natural History Museum, Oslo, Norway; NRM – Swedish Museum of Natural History, Stockholm, Sweden; PFP – Percy FitzPatrick Institute of African Ornithology, University of Cape Town, South Africa; RMCA – Royal Museum for Central Africa, Tervuren, Belgium; UWBM – University of Washington Burke Museum, Seattle, USA; VH – Vogelwarte Hiddensee, Zoological Institute and Museum, Ernst Moritz Arndt University of Greifswald, Greifswald, Germany. Sequences used in the multilocus analyses are in italics. Samples without voucher specimens or photos have an * after the specimen number; samples with only photo documentation have *P* after the specimen number (in Appendix 2).

¹Incorrectly labelled *Ammomanes phoenicurus* in GenBank. ²Incorrectly stated to refer to sample from Saudi Arabia in Fregin et al. (2012). ³See comments on subspecies in Shirihai (1996). ³Described in Khan (1999).

Taxon	Locality	Sample No. / Specimen No. / Reference	Locus				
			Cytochrome <i>b</i>	16S	ODC	Myoglobin	RAG
<i>Alaemon alaudipes desertorum</i>	W Saudi Arabia	Tieleman et al. (2003)	AY165148	–	–	–	–
<i>Alaemon alaudipes desertorum</i>	W Saudi Arabia	Tieleman et al. (2003)	AY165159	–	–	–	–
<i>Alaemon alaudipes desertorum</i>	W Saudi Arabia	Tieleman et al. (2003)	AY165161	–	–	–	–
<i>Alaemon alaudipes desertorum</i>	W Saudi Arabia	PFP HpB4 *	KF060400	KF060343	–	–	–
<i>Alaemon alaudipes alaudipes</i>	S Morocco	MNHN 2003-2729	–	–	KF060550	KF060498	KF060609

<i>Alauda arvensis arvensis</i>	Sweden	Johansson et al. (2007) (ODC); Ericson and Johansson (2003) (myo)	–	–	<i>EF625336</i>	<i>AY228284</i>	–
<i>Alauda arvensis arvensis</i>	Netherlands	PFP SkyL2 *	–	–	–	–	KF060610
<i>Alauda arvensis arvensis/cantarella</i>	Nimes, France	Tieleman et al. (2003) / PFP SkyL1 *	<i>AY165156</i>	KF060362	–	–	–
<i>Alauda arvensis dulcivox</i>	SE Kazakhstan	DZUG U581 (P)	KF060401	–	–	–	–
<i>Alauda gulgula inconspicua</i>	SE Kazakhstan	NRM 20066712	KF060402	–	KF060551	KF060499	KF060611
<i>Alauda gulgula inconspicua</i>	Haryana, India	DZUG U3267 (P)	KF060403	–	–	–	–
<i>Alauda razae</i>	Raso Island, Cape Verde Islands	PFP Raz *	KF060404	KF060361	–	–	–
<i>Ammomanes cinctura arenicolor</i>	Morocco	PFP BrTdLk1 (P)	KF060405	KF060353	–	–	–
<i>Ammomanes cinctura arenicolor</i>	S Morocco	MNHN 2003-2735	KF060406	–	KF060552	KF060500	KF060612
<i>Ammomanes cinctura arenicolor</i>	W Saudi Arabia	Tieleman et al. (2003) / PFP BTL *	AY165150	KF060352	–	–	–
<i>Ammomanes deserti annae</i>	Azraq, Jordan	Fregin et al. (2012) / VH A1592 (B0703)	JX236373	–	JX236460 ²	JX236343	JX236414
<i>Ammomanes deserti isabellina</i>	W Saudi Arabia	Tieleman et al. (2003)	AY165152 ¹	–	–	–	–
<i>Ammomanes deserti deserti</i> ³	Arava valley, Israel	DZUG U770 *	KF060411	–	–	–	–

<i>Ammomanes deserti payni</i>	Morocco	PFP DLS6 (P)	KF060410	KF060351	–	–	–
<i>Ammomanes deserti payni</i>	S Morocco	MNHN 2013-66	KF060409	–	KF060553	KF060501	KF060613
<i>Ammomanes deserti phoenicuroides</i>	Dera Ghazi Khan district, Punjab, Pakistan	BZU 200A/11	KF060407	–	KF060554	KF060502	KF060615
<i>Ammomanes deserti phoenicuroides</i>	Mari Indus, Mianwali, Pakistan	BZU 15/11	KF060408	–			KF060614
<i>Ammomanopsis grayi hoeschi</i>	Van Zyl's Pass, NW Namibia	Tieleman et al. (2003) / PFP P94 *	AY165168	KF060374	KF060556	KF060503	KF060617
<i>Calandrella acutirostris tibetana</i>	NE Qinghai, China	DZUG U577 *	KF060412	–	KF060557	KF060504	–
<i>Calandrella acutirostris tibetana</i>	S Xizang, China	NHMO 17039 *	KF060413	–	–	–	–
<i>Calandrella athenis</i>	S Kenya	PFP AST1 *	KF060414	–	KF060558	KF060505	KF060618
<i>Calandrella athenis</i>	N Tanzania	Tieleman et al. (2003) / PFP AST2 *	AY165166	KF152963	–	–	–
<i>Calandrella brachydactyla dukhunensis</i>	E Mongolia	UWBM 59838 / CSW5805	KF060417	–	–	–	–
<i>Calandrella brachydactyla longipennis</i>	SE Kazakhstan	DZUG U582 (P)	KF060416	–	–	–	–
<i>Calandrella brachydactyla rubiginosa</i>	C Morocco	CEFE Cbra1 *	KF060415	–	KF060559	–	–
<i>Calandrella cheleensis cheleensis</i>	NE Nei Mongol, China	DZUG U2202 *	KF060418	–	KF060560	KF060506	–
<i>Calandrella cheleensis cheleensis</i>	E Mongolia	UWBM 59820 / CSW5787	KF060419	–	–	–	–

<i>Calandrella cinerea cinerea</i>	St Helena Bay, Western Cape, South Africa	PFP CcinP119 *	KF060421	KF060358	–	–	–
<i>Calandrella cinerea williamsi</i>	near Nairobi, Kenya	PFP RC2 *	–	–	KF060561	KF060507	KF060619
<i>Calandrella cinerea williamsi</i>	Oldonyo sambu, Tanzania	PFP RCL13 *	KF060420	KF060357	–	–	–
<i>Calandrella raytal raytal</i>	Haryana, India	DZUG 2200 (P)	KF060422	–	–	KF060508	–
<i>Calandrella raytal raytal</i>	Haryana, India	DZUG 2201 (P)	KF060423	–	KF060562	–	–
<i>Calandrella rufescens minor</i>	Mahazat, Saudi Arabia	Tieleman et al. (2003) / PFP LST1 *	<i>AY165154</i>	KF060355	KF060563	KF060509	KF060620
<i>Calandrella rufescens minor</i>	Morocco	PFP LST ad *	KF060424	KF060354	–	–	–
<i>Calendulauda africanoides austinrobertsi</i>	Groblershoop, Northern Cape, South Africa	PFP P175 *	KF060425	KF060370	–	–	–
<i>Calendulauda albescens guttata</i>	Prince Albert, Western Cape, South Africa	PFP Pi3 *	KF060426	KF060365	–	–	–
<i>Calendulauda alopex intercedens</i>	Oldonyo sambu, Tanzania	PFP FCL15 *	KF060427	KF060369	–	–	–
<i>Calendulauda barlowi patae</i>	Alexander Bay, Northern Cape, South Africa	PFP Pi4 *	KF060428	KF060367	–	–	–
<i>Calendulauda burra</i>	Kleinputz, Northern Cape, South Africa	PFP P119 *	KF060429	KF060364	KF060564	KF060510	KF060621
<i>Calendulauda erythrochlamys</i>	Walvis Bay, Namibia	Tieleman et al. (2003) / PFP P-	<i>AY165167</i>	KF060366	–	–	–

		Dune					
<i>Calendulauda poecilosterna</i>	Chyulu Hills, S Kenya	NMK PBR4 *	KF060430	KF060368	KF060598	KF060541	KF060643
<i>Calendulauda sabota bradfieldi</i>	Prieska, Northern Cape, South Africa	Tieleman et al. (2003) / PFP P181 *	<i>AY165172</i>	KF060363	KF060600	KF060543	KF060645
<i>Calendulauda sabota bradfieldi</i>	Dwaalhoek Farm, Northern Cape, South Africa	DZUG U2344 (P)	KF060432	–	KF060601	KF060544	–
<i>Certhilauda benguelensis benguelensis</i>	Uniab River, Namibia	PFP P204/L *	KF060433	KF060376	–	–	–
<i>Certhilauda brevirostris</i>	Bredasdorp, Western Cape, South Africa	PFP P215/L2 *	KF060434	KF060377	–	–	–
<i>Certhilauda chuana</i>	Pietersburg, KwaZulu-Natal, South Africa	PFP P96 *	KF060435	KF060375	–	–	–
<i>Certhilauda curvirostris curvirostris</i>	Pater Noster, Western Cape, South Africa	PFP P220/L7 *	KF060436	KF060379	–	–	–
<i>Certhilauda semitorquata algida</i>	Stutterheim, Eastern Cape, South Africa	PFP P214/L1 *	KF060437	KF060378	KF060565	KF060511	KF060622
<i>Certhilauda subcoronata subcoronata</i>	near Brandvlei, Northern Cape, South Africa	PFP P219/L6 *	KF060438	KF060380	–	–	–
<i>Chersomanes albofasciata boweni</i>	Van Zyl's Pass, Namibia	Tieleman et al. (2003) / PFP P203 *	<i>AY165165</i>	KF060373	–	–	–
<i>Chersomanes albofasciata</i> ssp.	?	Johansson et al.	–	–	<i>EU680716</i>	<i>EU680604</i>	–

		(2007)					
<i>Chersomanes beesleyi</i>	Oldonyo sambu, Tanzania	PFP ShTz *	KF060440	KF060372	–	–	KF060623
<i>Chersophilus duponti duponti</i>	Spain	DZUG U2255 *	KF060441	–	KF060566	KF060512	KF060624
<i>Eremalauda dunni eremodites</i>	Saudi Arabia	Tieleman et al. (2003) / PFP DNL1 *	AY165153	AY165128	KF060555	–	KF060616
<i>Eremophila alpestris atlas</i>	Morocco	MNHN 2003-2730	KF060443	–	–	–	–
<i>Eremophila alpestris brandti</i>	SE Kazakhstan	DZUG U2491 (P)	KF060444	–	–	–	–
<i>Eremophila alpestris deosaiensis</i> ⁴	Deosai, Baltistan, Pakistan	BZU 20120608- D32	KF060447	–	–	–	–
<i>Eremophila alpestris deosaiensis</i> ⁴	Deosai, Baltistan, Pakistan	BZU 20120608- D35	KF060448	–	–	–	–
<i>Eremophila alpestris elwesi</i>	NE Qinghai, China	DZUG U576 (P)	KF060445	–	KF060567	–	–
<i>Eremophila alpestris elwesi</i>	NE Qinghai, China	DZUG U154 *	–	–	–	KF060513	–
<i>Eremophila alpestris elwesi</i>	Qinghai or Xizang, China	Qu et al. (2000)	FJ952456				
<i>Eremophila alpestris elwesi</i>	Qinghai or Xizang, China	Qu et al. (2000)	FJ952457	–	–	–	–
<i>Eremophila alpestris flava</i>	Sweden	NRM 20046759	KF060442	–	–	–	–
<i>Eremophila alpestris leucolaema</i>	Montana, USA	Klicka et al. (2000)	AF290137	–	–	–	–
<i>Eremophila alpestris praticola</i>	Illinois, USA	FMNH 351146	KF060446	KF060359	KF060568	–	KF060625

<i>Eremophila bilopha</i>	Saudi Arabia	Tieleman et al. (2003) / PFP THL *	AY165157	KF060360	KF060569	–	–
<i>Eremophila bilopha</i>	Morocco	MNHN 2003-2732	–	–	–	KF060514	–
<i>Eremopterix australis</i>	Droëgrond, Northern Cape, South Africa	PFP P176 *	KF060449	KF060348	KF060570	KF060515	–
<i>Eremopterix australis</i>	South Africa	Barker et al. (unpublished)	–	–	–	–	AY319982
<i>Eremopterix griseus</i>	Sind, Pakistan	DZUG 2257 *	KF060450	–	KF060571	–	KF060627
<i>Eremopterix griseus</i>	Sind, Pakistan	DZUG 2258 *	KF060451	–	–	–	–
<i>Eremopterix leucopareia</i>	Arusha, Tanzania	PFP FFL6 *	KF060452	KF060346	KF060572	KF060516	KF060628
<i>Eremopterix nigriceps affinis</i>	Saudi Arabia	Tieleman et al. (2003) / PFP BCL *	AY165149	KF060344	–	–	–
<i>Eremopterix nigriceps melanauchen</i>	Sind, Pakistan	DZUG U2259 *	KF060453	–	KF060573	KF060517	–
<i>Eremopterix nigriceps melanauchen</i>	Sind, Pakistan	DZUG U2260 *	KF060454	–	–	–	–
<i>Eremopterix signatus</i>	Shaba Game Reserve, C Kenya	NMK CHSL *	KF060455	KF060347	–	–	–
<i>Eremopterix verticalis verticalis</i>	Western Cape, South Africa	Tieleman et al. (2003) / PFP P99	AY165164	KF060345	–	–	–
<i>Galerida cristata brachyura</i>	Taif, Saudi Arabia	Tieleman et al. (2003) / PFP CL	AY165151	KF060399			
<i>Galerida cristata (iwanowi?)</i>	S Iran	Guillaumet et al. (2008)	EF445424	–	–	–	–
<i>Galerida cristata ssp.</i>	Iran	Guillaumet et al.	DQ028951	–	–	–	–

		(2006)					
<i>Galerida cristata kleinschmidtii</i>	NW Morocco	Guillaumet et al. (2005)	AY769746	–	–	–	–
<i>Galerida cristata leautungensis</i>	SE Russia	Guillaumet et al. (2008)	EF445427	–	–	–	–
<i>Galerida cristata magna</i>	S Kazakhstan	Guillaumet et al. (2008)	EF445425	–	–	–	–
<i>Galerida cristata somaliensis</i>	Kenya	Guillaumet et al. (2008)	EF445429	–	–	–	–
<i>Galerida macrorhyncha randoni</i>	Errachidia, Morocco	PFP CL2a (P)	KF060456	KF060398	KF060574	KF060518	KF060629
<i>Galerida macrorhyncha randoni</i>	E C Morocco	Guillaumet et al. (2005)	AY769749	–	–	–	–
<i>Galerida macrorhyncha randoni</i>	E C Morocco	Guillaumet et al. (2005)	AY769750	–	–	–	–
<i>Galerida magnirostris</i>	St Helena Bay, Western Cape, South Africa	Tieleman et al. (2003) / PFP TL *	AY165169	KF060396	–	–	–
<i>Galerida malabarica</i>	India	Guillaumet et al. (2008)	EF445430	–	–	–	–
<i>Galerida modesta nigrita</i>	Guinea	VH A1428 *	KF060457	–	KF060575	KF060519	KF060630
<i>Galerida theklae carolinae</i>	S Tunisia	Guillaumet et al. (2008)	EF445418	–	–	–	–
<i>Galerida theklae ellioti</i>	Somalia	Guillaumet et al. (2008)	EF445423	–	–	–	–
<i>Galerida theklae erlangeri</i>	NW Morocco	Guillaumet et al. (2005)	AY769740	–	–	–	–

<i>Galerida theklae praetermissa</i>	NW Ethiopia	Guillaumet et al. (2008)	EF445421	–	–	–	–
<i>Galerida theklae ruficolor</i>	NE Morocco	Guillaumet et al. (2005)	AY769741				
<i>Galerida theklae ruficolor</i>	Errachidia, Morocco	PFP TkL (P)	KF060458	KF060397	–	–	–
<i>Heteromirafra archeri sidamoensis</i>	Liben Plain, SE Ethiopia	Spottiswoode et al. (2013) / DZUG U2810 (P)	KC512763	–	–	KF060521	–
<i>Heteromirafra archeri archeri</i>	Jijiga, SE Ethiopia	Spottiswoode et al. (2013) / DZUG 2805 (P)	KC512760	–	–	–	–
<i>Heteromirafra ruddi</i>	Wakkerstroom, South Africa	PFP L8 *	KC869742	KF060371	KF060576	KF060520	KF060631
<i>Lullula arborea pallida</i>	Nimes, France	Tieleman et al. (2003) / PFP WL *	AY165158	KF060356	KF060577	KF060522	KF060632
<i>Melanocorypha bimaculata</i>	SE Kazakhstan	DZUG U2281 (P)	KF060459	–	–	–	–
<i>Melanocorypha bimaculata</i>	SE Kazakhstan	DZUG U2282 (P)	KF060460	–	–	KF060523	–
<i>Melanocorypha bimaculata</i>	SE Kazakhstan	DZUG U2283 (P)	KF060461	–	KF060578	–	–
<i>Melanocorypha calandra calandra</i>	NE Morocco	MNHN 2003-2733	–	–	KF060579	KF060524	KF060633
<i>Melanocorypha calandra psammochroa</i>	SE Kazakhstan	DZUG U583 (P)	KF060462	–	–	–	–
<i>Melanocorypha leucoptera</i>	SE Kazakhstan	DZUG U579 (P)	KF060463	–	KF060580	KF060525	KF060634
<i>Melanocorypha maxima</i>	Qinghai, China	DZUG U578 (P)	KF060464	–	KF060581	–	–
<i>Melanocorypha maxima</i>	Qinghai, China	DZUG U588 (P)	KF060465	–	KF060582	KF060526	–

<i>Melanocorypha mongolica</i>	Mongolia	UWBM 59839 / CSW5806	KF060466	–	KF060583	KF060527	KF060635
<i>Melanocorypha yeltoniensis</i>	SE Kazakhstan	DZUG U575 (P)	KF060467	–	KF060584	KF060528	KF060636
<i>Mirafra affinis</i>	Andhra Pradesh, India	DZUG U3268 (P)	KF060468	–	KF060585	KF060529	–
<i>Mirafra africana harterti</i>	Chyulu Hills, S Kenya	NMK RN1 *	KF060469	KF060389	–	–	–
<i>Mirafra africana harterti</i>	S Kenya	NMK RN2 *	–	–	KF060586	KF060530	–
<i>Mirafra angolensis antonii</i>	Hillwood Farm, NW Zambia	PFP MA1 *	KF060470	–	KF060587	KF060531	KF060637
<i>Mirafra apiata apiata</i>	Silwerstroomstrand, Western Cape, South Africa	PFP P174 *	KC869741	KF060388	KF060588	KF060532	KF060638
<i>Mirafra assamica</i>	Punjab, India	DZUG U3269 (P)	KF060471	–	KF060589	KF060533	–
<i>Mirafra cantillans cantillans</i>	Punjab, India	DZUG U3273 (P)	KF060472	–	KF060590	KF060534	–
<i>Mirafra cantillans marginata</i>	Sanya Juu, Tanzania	PFP SBL *	KF060473	KF060386	–	–	–
<i>Mirafra cantillans simplex</i>	Mahazat, Saudi Arabia	Tieleman et al. (2003) / PFP SBL1 *	AY165155	KF060385	–	–	–
<i>Mirafra cheniana</i>	Boskop, Free State, South Africa	PFP P192 *	KF060474	KF060384	–	–	–
<i>Mirafra erythrocephala</i>	Thailand	DZUG U3270 *	KF060475	–	KF060591	KF060535	–
<i>Mirafra erythroptera sindiana</i>	Haryana, India	DZUG U3271 (P)	KF060476	–	KF060592	KF060536	KF060639
<i>Mirafra fasciolata fasciolata</i>	Northern Cape, South Africa	DZUG U2345 (P)	KF060477	–	KF060593	KF060537	–

<i>Mirafra hova</i>	Madagascar	FMNH 352844	KF060478	KF060349	KF060594	KF060538	KF060640
<i>Mirafra hypermetra hypermetra</i>	Shaba Game Reserve, C Kenya	NMK RWBL *	KF060479	KF060387	–	–	–
<i>Mirafra javanica athertonensis</i>	Queensland, Australia	ANWC B31226	KF060484	–	–	–	–
<i>Mirafra javanica forresti</i>	NE Western Australia	ANWC B55078	KF060482	–	–	–	–
<i>Mirafra javanica javanica</i>	Java, indonesia	DZUG U3272 *	KF060480	–	KF060595	–	–
<i>Mirafra javanica woodwardi</i>	W Western Australia	ANWC B33326	KF060481	–	–	–	–
<i>Mirafra javanica horsfieldii</i>	SE South Australia	ANWC B45130	KF060483	–	–	–	–
<i>Mirafra javanica williamsoni</i>	Thailand	Alström et al. (2006) (cytb, myo); Alström et al. (2011) (ODC); Fregin et al. (2012) (RAG)	<i>DQ008520</i>	–	<i>HQ333089</i>	<i>DQ008571</i>	<i>JX236441</i>
<i>Mirafra microptera</i>	Myanmar	DZUG U3275 (P)	KF060485	–	KF060596	–	KF060641
<i>Mirafra microptera</i>	Myanmar	DZUG U3276 (P)	–	–	–	KF060539	–
<i>Mirafra passerina</i>	Rooipoort, Northern Cape, South Africa	Tieleman et al. (2003) / PFP P186 *	<i>AY165163</i>	KF060383	KF060597	KF060540	KF060642
<i>Mirafra rufocinnamomea torrida</i>	Iringa, S Tanzania	PFP FLTz *	KF060486	KF060381	KF060599	KF060542	KF060644
<i>Mirafra williamsi</i>	C Kenya	NMK WL1 *	KF060487	KF060382	–	–	–
<i>Mirafra williamsi</i>	C Kenya	PFP WillLk4 *	–	–	KF060602	–	–

<i>Pinarocorys erythropygia</i>	Mali	RMCA 105748	KF060488	–	–	KF060545	–
<i>Pinarocorys erythropygia</i>	NE D. R. Congo	RMCA 101081	KF060489	–	KF060603	–	–
<i>Pinarocorys nigricans nigricans</i>	SE D. R. Congo	RMCA 106597	KF060490	–	–	–	–
<i>Pinarocorys nigricans occidentis</i>	SW D. R. Congo	RMCA 101105	KF060491	–	KF060604	KF060546	–
<i>Pseudalaemon fremantlii delamerei</i>	Oldonyo Sambo, N Tazania	PFP STL9 *	KF060492	KF060390	KF060605	KF060547	KF060646
<i>Ramphocoris clotbey</i>	Morocco	PFP CLOT1 *	KF060493	KF060350	–	–	–
<i>Ramphocoris clotbey</i>	Morocco	CEFE Rhcll *	KF060494	–	KF060606	KF060548	KF060647
<i>Spizocorys conirostris conirostris</i>	Volkstrust, KwaZulu-Natal, South Africa	PFP P177 *	KF060495	KF060395	KF060607	–	KF060648
<i>Spizocorys fringillaris</i>	Vaalpoort, Mpumalanga, South Africa	PFP P179 *	KF060496	KF060394	–	–	–
<i>Spizocorys personata intensa</i>	Shaba Game Reserve, C Kenya	NMK ML1 *	KF060497	KF060393	–	–	–
<i>Spizocorys personata intensa</i>	C Kenya	PFP MSKLk6 *	–	–	KF060608	KF060549	
<i>Spizocorys sclateri</i>	near Brandvlei, Northern Cape, South Africa	Tieleman et al. (2003) / PFP P191 *	<i>AY165170</i>	KF060391	–	–	–
<i>Spizocorys starki</i>	Grunau, S Namibia	Tieleman et al. (2003) / PFP P178 *	<i>AY165162</i>	KF060392	–	–	–
Outgroup							
<i>Acrocephalus arundinaceus</i>		A.J. Vastermark (unpublished)	–	AB492871	–	–	–

<i>Aegithalos concinnus</i>		Päckert et al. (2010)	–	GU433980	–	–	–
<i>Panurus biarmicus</i>		Barker et al. (unpublished) (RAG); Ericson and Johansson (2003) (myo); Fregin et al. (2012) (cytb); Johansson et al. (2008) (ODC)	<i>JX236397</i>	–	<i>EU680747</i>	<i>AY228308</i>	<i>AY319993</i>
<i>Prinia bairdii</i>		Barker (2004) (cytb); Barker et al. (unpublished) (RAG); Cibois et al. (1999) (16S); Fregin et al. (2012) (ODC, myo)	<i>AY352536</i>	<i>AF094647</i>	<i>JX236470</i>	<i>JX236364</i>	<i>AY319998</i>
<i>Cisticola brachyptera</i>		Cibois et al. (1999)	–	AF094670	–	–	–

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Alauda arvensis dulcivox DZUG U581
SE Kazakhstan
(from video)

Alauda gulgula
inconspicua
DZUG U3267
Haryana, India



Ammomanes cinctura arenicolor
PFP BrTdLk1
Morocco





Ammomanes deserti payni
PFP DLS6
Morocco



Calandrella brachydactyla longipennis
DZUG U582
SE Kazakhstan
(from video)



Calandrella raytal
raytal
DZUG U2200
Haryana, India



Calandrella raytal
raytal
DZUG U2201
Haryana, India



Eremophila alpestris brandti
DZUG U2491
SE Kazakhstan
(from video)



Eremophila alpestris
elwesi
DZUG U576
NE Qinghai, China



Ealp? Koko No 020820
No 1
U576



*Melanocorypha
bimaculata*
DZUG U2281
SE Kazakhstan
(from video)



U2282

Melanocorypha bimaculata

Konchengel, KZ

030510-2

Melanocorypha bimaculata
DZUG U2282
SE Kazakhstan



U2283

Melanocorypha bimaculata

Konchangel, KZ

080510-3

Melanocorypha bimaculata

DZUG U2283

SE Kazakhstan



Melanocorypha calandra
psammochroa
DZUG U583
SE Kazakhstan
(from video)



*Melanocorypha
leucoptera*
(male)
DZUG U579
SE Kazakhstan
(from video)



Melanocorypha maxima
DZUG U578
NE Qinghai, China
(from video)



Melanocorypha maxima
DZUG U588
NE Qinghai, China





Melanocorypha yeltoniensis
(male)
DZUG U575
SE Kazakhstan
(from video)



Mirafra affinis
DZUG U3268
Andhra Pradesh, India

Mirafra affinis (♀)
Hyderabad, Andhra Pradesh
India
980517



Mirafra assamica
DZUG U3269
Punjab, India

Mirafra assamica ♂

Harike, Punjab,
India

980520-1(PA)

tape recordings (PA)



Mirafra cantillans cantillans
DZUG U3273
Punjab, India

Mirafra cantillans
male
Harike, Punjab, India
9805
photographs (Björn Johansen)
tape recording (P.A.)



Mirafra erythroptera
DZUG U3271
Punjab, India

Mira fra erythroptera ♂

Delhi

9806

(PA)



Mirafr fasciolata
DZUG U2345
Benfontein, Kimberley,
South Africa

Galerida macrorhyncha randoni
PFP CL2a (right bird in both
pictures)

Galerida theklae ruficolor
PFP TkL (left bird in both pictures)

Errachidia, Morocco



Heteromirafr *archeri*
archeri
DZUG U2805
Jijiga, Ethiopia



Heteromirafr *archeri*
sidamoensis
DZUG U2810
Liben Plain, Ethiopia

