

**Table S1.** List of specimens used in phylogenetic analysis.

GenBank AN	Species Before	63 MOTUs by ASAP	Haplo Type	Voucher ID	Locality	N	E	Source
KT182059	<i>P. ahvazicus</i>	<i>P. ahvazicus</i>	ah	ZISP TS-2289 (A-13)	Iran, Khuzestan, Ahvaz [type locality of <i>ahvazicus</i> ]	31.39	48.59	[18]
KT182060	<i>P. ahvazicus</i>	<i>P. ahvazicus</i>	ah	ZISP TS-2291 (A-14)	Iran, Khuzestan, Ahvaz	31.39	48.59	[18]
MK461331	<i>P. ahvazicus</i>	<i>P. ahvazicus</i>	ah	ZMMU R-12713-1	Iran, Khuzestan, 80 km NW from Ahvaz town	32.5	48.12	<i>this study</i>
MK461332	<i>P. ahvazicus</i>	<i>P. ahvazicus</i>	ah	ZMMU R-12713-2	Iran, Khuzestan, 80 km NW from Ahvaz town	32.5	48.12	<i>this study</i>
KF691708	<i>P. ahvazicus</i>	<i>P. ahvazicus</i>	ah	ZMMU R-12713-3	Iran, Khuzestan, 80 km NW Ahvaz	32.5	48.12	[12]
MK461330	<i>P. ahvazicus</i>	<i>P. ahvazicus</i>	ah	ZMMU R-12713-4	Iran, Khuzestan, 80 km NW Ahvaz	32.5	48.12	<i>this study</i>
MW940441	<i>P. ahvazicus</i>	<i>P. ahvazicus</i>	ah	ERP 8934	Iran, Khuzestan province, Ahvaz	-	-	[87]
MW940442	<i>P. ahvazicus</i>	<i>P. ahvazicus</i>	ah	ERP 8934	Iran, Khuzestan province, Ahvaz	-	-	[87]
KT182058	<i>P. ahvazicus</i>	<i>P. ahvazicus</i>	ah	ZISP TS-2292 (A-12)	Iran, Khuzestan, Ahvaz	31.39	48.59	[18]
KF691729	<i>P. alpheraki</i>	<i>P. alpheraki</i>	al1	ZMMU R-12670	Kazakhstan, Almaty, Syugaty Depression, 25 km E from Kokpek	43.45	78.9	[12]
MK461333	<i>P. alpheraki</i>	<i>P. alpheraki</i>	al2	ZMMU R-12180-1	Kazakhstan, Charyn river valley, Bogety mts. (Ulken-Bogety)	43.62	79.16	<i>this study</i>
MK461334	<i>P. alpheraki</i>	<i>P. alpheraki</i>	al2	ZMMU R-12180-2	Kazakhstan, Charyn river valley, Bogety mts. (Ulken-Bogety)	43.62	79.16	<i>this study</i>
MK461335	<i>P. alpheraki</i>	<i>P. alpheraki</i>	al1	ZMMU R-12334	Kazakhstan, Almaty, Sugaty Valley	43.489	79.053	<i>this study</i>
MK461336	<i>P. alpheraki</i>	<i>P. alpheraki</i>	al1	ZMMU R-12335	Kazakhstan, Sugaty Valley	43.464	78.915	<i>this study</i>
MK461337	<i>P. alpheraki</i>	<i>P. alpheraki</i>	al2	ZMMU R-12326-1	Kazakhstan, Almaty, Ily Valley, 30 km W from Dzharkent	44.143	79.643	<i>this study</i>
MK461338	<i>P. alpheraki</i>	<i>P. alpheraki</i>	al2	ZMMU R-12511	Kazakhstan, Ili river valley, Mt. Katutau	43.931	79.209	<i>this study</i>
MK461339	<i>P. alpheraki</i>	<i>P. alpheraki</i>	al1	ZMMU R-12508	Kazakhstan, Sugata valley, on the road to Zharkent	43.629	79.351	<i>this study</i>
MK461340	<i>P. alpheraki</i>	<i>P. alpheraki</i>	al2	ZMMU R-13086-5	Kazakhstan, Altin-Emel`	43.972	78.639	<i>this study</i>

MK461341	<i>P. alpheraki</i>	<i>P. alpheraki</i>	<b>al1</b>	ZMMU R-12667	Kazakhstan, Almaty, Ili Depression, 3 km S from Tashkarasu	43.733	79.467	<i>this study</i>
MK461342	<i>P. alpheraki</i>	<i>P. alpheraki</i>	<b>al2</b>	ZMMU R-12811	Kazakhstan, Taldy-Kurgan, Ili Depression, 10 km E from Aktau Hills	44.083	79.467	<i>this study</i>
MK461343	<i>P. alpherakii</i>	<i>P. alpherakii</i>	<b>al1</b>	ZMMU R-12512	Kazakhstan, Uigursky Region, Tashkarassu Village	43.833	79.643	<i>this study</i>
JF756686	<i>P. ananjevae</i>	<i>P. ananjevae</i>	<b>an</b>	HCZ-2, no voucher	Iran, Fars, Abadeh env. [type locality of <i>ananjevae</i> ]	31.129	52.203	[19]
JF756687	<i>P. ananjevae</i>	<i>P. ananjevae</i>	<b>an</b>	HCZ-1, no voucher	Iran, Fars, Abadeh env.	31.129	52.203	[19]
KT182053	<i>P. arabicus</i>	<i>P. arabicus</i>	<b>ar</b>	ZISP 28704	Oman, Rub-Al-Khali, Mughshin vicinity	19.83	54.67	[12]
KT182054	<i>P. arabicus</i>	<i>P. arabicus</i>	<b>ar</b>	-	Yemen, 30 km west from Ma'rib by the road to San'a	15.43	44.93	[18]
KT182055	<i>P. arabicus</i>	<i>P. arabicus</i>	<b>ar</b>	ZISP TS-2541 (A-9)	Saudi Arabia, Sahnah, 100 km south east of Riyadh	24.04	47.23	[18]
KT182056	<i>P. arabicus</i>	<i>P. arabicus</i>	<b>ar</b>	ZISP TS-2542 (A-10)	Saudi Arabia, Sahnah, 100 km south east of Riyadh	24.04	47.23	[18]
KT182057	<i>P. arabicus</i>	<i>P. arabicus</i>	<b>ar</b>	ZISP TS-2540 (A-11)	Saudi Arabia, Sahnah, 100 km south east of Riyadh	24.04	47.23	[18]
MK461344	<i>P. arabicus</i>	<i>P. arabicus</i>	<b>ar</b>	ZMMU R-12502	OAE, Abu-Dabi, 30 km SE Al Ain;	24.366	55.644	<i>this study</i>
MK461345	<i>P. arabicus</i>	<i>P. arabicus</i>	<b>ar</b>	ZMMU R-12502-1	United Arab Emirates, Abu Dhabi, Al Ain	24.112	55.5	<i>this study</i>
MK461346	<i>P. axillaris</i>	<i>P. axillaris</i>	<b>ax1</b>	ZMMU R-14320	China, Xinjiang, 55 km SE from Urumqi	43.401	88.126	<i>this study</i>
MK461347	<i>P. axillaris</i>	<i>P. axillaris</i>	<b>ax2</b>	ZMMU R-14322	China, Xinjiang, 30 km S from Toksun	42.628	88.572	<i>this study</i>
MK461348	<i>P. axillaris</i>	<i>P. axillaris</i>	<b>ax2</b>	ZMMU R-14323	China, Xinjiang, Lutai, 23 km NE from Ta'erlake-xiang	42.014	84.592	<i>this study</i>
KF691724	<i>P. axillaris</i>	<i>P. axillaris</i>	<b>ax3</b>	ZMMU R-12302	China, Xinjiang, Qiemo County	38.43	85.06	[12]
MK461349	<i>P. axillaris</i>	<i>P. axillaris</i>	<b>ax4</b>	ZMMU R-14319	China, Xinjiang, Baicheng	41.556	81.207	<i>this study</i>

KF691710	<i>P. raddei</i>	<i>P. boettgeri</i>	<b>bo</b>	IZIP 0998	Uzbekistan, Surxondaryo Viloyati, near Termez	37.34	67.32	[12]
MK461360	<i>P. scutellatus</i>	<i>P. brevipes</i>	<b>br</b>	ZMMU R-12137-1	Iran, Khorasan, 40 km N from Gonobad [vicinity of the type locality of <i>brevipes</i> ]	34.69	58.64	<i>this study</i>
MK461361	<i>P. scutellatus</i>	<i>P. brevipes</i>	<b>br</b>	ZMMU R-12137-2	Iran, Khorasan, 40 km N from Gonobad	34.69	58.64	<i>this study</i>
JF756679	<i>P. cameranoi</i>	<i>P. cameranoi</i>	<b>ca1</b>	ZMMU R-12661	Kazakhstan, SE Sugata valley	43.45	78.9	[19]
JF769372	<i>P. cameranoi</i>	<i>P. cameranoi</i>	<b>ca1</b>	ZMMU R-12808	Kazakhstan, Alma-Ata, Ili Depression, Ulgen-Bogety Mts., Charyn-Borandysu Rd.	43.75	79.217	[19]
JF769379	<i>P. cameranoi</i>	<i>P. cameranoi</i>	<b>ca1</b>	ZMMU R-12668	Kazakhstan, Alma-Ata, Ili Depression, 3 km S from Tashkarasu	43.733	79.467	[19]
JF769381	<i>P. cameranoi</i>	<i>P. cameranoi</i>	<b>ca1</b>	ZMMU R-12664	Kazakhstan, Alma-Ata, Ili Depression, Charyn river along of Kokpek Chundzha rout	43.6	79.317	[19]
JF756680	<i>P. cameranoi</i>	<i>P. cameranoi</i>	<b>ca2</b>	ZMMU R-12663	Kazakhstan, N Sugata valley	43.51	79.4	[19]
JF756681	<i>P. cameranoi</i>	<i>P. cameranoi</i>	<b>ca2</b>	ZMMU R-12669-1	Kazakhstan, Sugata valley	43.45	78.9	[19]
MK461350	<i>P. cameranoi</i>	<i>P. cameranoi</i>	<b>ca2</b>	ZMMU R-12782	Kazakhstan, Taldy-Kurgan, right board of Kapchagay reservoir	43.883	77.7	<i>this study</i>
JF756682	<i>P. cameranoi</i>	<i>P. cameranoi</i>	<b>ca3</b>	ZMMU R-12669-2	Kazakhstan, Sugata valley	43.45	78.9	[19]
MK461402	<i>P. scutellatus</i>	<i>P. cf. carinipes</i>	<b>cr</b>	ZMMU R-11914-1	Iran, Sistan-e Baluchestan, Nusrat-Abad, Near Nusrat-Abad	29.29	59.32	<i>this study</i>
MK461412	<i>P. scutellatus</i>	<i>P. cf. carinipes</i>	<b>cr</b>	ZMMU R-12314	Iran, Sistan-e Baluchestan, 90 km W from Zahedan, near Nusrat-Abad	29.483	59.533	<i>this study</i>
MF039065	<i>P. erythrurus erythrurus</i>	<i>P. erythrurus</i>	<b>er</b>	-	China, Amdo, Southern Qiangtang Plateau of QTP	32.15	91.58	[86]
KP232959	<i>P. forsythii</i>	<i>P. forsythii</i>	<b>fo1</b>	no voucher	China, Xinjiang, Aksu	40.42	80.9	[22]
MK461355	<i>P. forsythii</i>	<i>P. forsythii</i>	<b>fo2</b>	ZMMU R-14324	China, Xinjiang, N Takla-Makan, Aksu, 5 km N Aral	40.42	81.234	[19]
MW456559	<i>P. nasatus</i>	<i>P. forsythii</i>	<b>fo3</b>	GXG1093	China, Xinjiang, Baicheng County	-	-	[145]
KP126516	<i>P. forsythii</i>	<i>P. forsythii</i>	<b>fo4</b>	WGXXG08371	China, Qiemo County, Xinjiang Uygur Autonomous Region	-	-	[146]

MK461474	<i>P. nasatus</i>	<i>P. forsythii</i>	<b>na</b>	ZMMU R-14317-4	China, Xinjiang, Aksu, 75 km NE Aksu, 5.3 km N from Norerik	41.743	80.833	<i>this study</i>
MK461475	<i>P. nasatus</i>	<i>P. forsythii</i>	<b>na</b>	ZMMU R-14317-2	China, Xinjiang, Aksu, 75 km NE Aksu, 5.3 km N from Norerik	41.743	80.833	<i>this study</i>
MK461476	<i>P. nasatus</i>	<i>P. forsythii</i>	<b>na</b>	ZMMU R-14317-3	China, Xinjiang, Aksu, 75 km NE Aksu, 5.3 km N from Norerik [type locality of <i>nasatus</i> ]	41.743	80.833	<i>this study</i>
KF691733	<i>P. frontalis</i>	<i>P. frontalis</i>	<b>fr</b>	ZMMU R-12309	China, Inner Mongolia, Alashan desert, Bayanmod	40.41	105.59	[12]
MK461356	<i>P. frontalis</i>	<i>P. frontalis</i>	<b>fr</b>	ZMMU R-12309-1	China, Inner Mongolia, Ordos desert, Bayan-Hot	38.67	105.62	[15]
MK461357	<i>P. frontalis</i>	<i>P. frontalis</i>	<b>fr</b>	ZMMU R-12309-2	China, Inner Mongolia, Ordos desert, Bayan-Hot	38.67	105.62	[15]
KF691731	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu3</b>	ZMMU R-12174-3	Russia, Astrakhan, Dosang	46.88	47.92	[12]
MK461368	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu1</b>	ZMMU R-12175-2	Kazakhstan, Malye Barsuki Sands	47.37	60.47	[13]
MK461369	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu3</b>	ZMMU R-12175-1	Kazakhstan, Malye Barsuki Sands	47.37	60.47	[13]
MK461381	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu1</b>	ZMMU R-12169	Kazakhstan, Aktyubinsk, Aral, Termeibes Mt. Foothills	45.96	58.3	[13]
MK461385	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu1</b>	ZMMU R-12168-1	Kazakhstan, Aktyubinsk, Kumzhargan Sands	48.33	57.36	[13]
MK461386	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu1</b>	ZMMU R-12168-2	Kazakhstan, Aktyubinsk, Kumzhargan Sands	48.33	57.36	[13]
MK461392	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu3</b>	ZMMU R-12174-1	Russia, Astrakhan, Dosang environs	46.88	47.92	[13]
MK461393	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu3</b>	ZMMU R-12174-2	Russia, Astrakhan, Dosang environs	46.88	47.92	[13]
MK461394	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu1</b>	ZMMU R-12172	Kazakhstan, Bolshiye Barsuki Sands, Sorkuduk	46.45	58.59	[13]
MK461469	<i>P. guttatus guttatus</i>	<i>P. guttatus guttatus</i>	<b>gu1</b>	ZMMU R-12938	Russia, Volgograd, Elton coast	49.083	46.783	[13]
MK461454	<i>P. guttatus salsatus</i>	<i>P. guttatus guttatus</i>	<b>gu1</b>	ZMMU R-12797	Turkmenistan, Balkan, Kazachlyshor saline, Kazakhlyshor Rd.	40.283	55.767	[13]
MK461460	<i>P. guttatus salsatus</i>	<i>P. guttatus guttatus</i>	<b>gu1</b>	ZMMU R-6918	Turkmenistan, Balkan, Kazachlyshor saline, 8 km N from Kumsebshen [type locality of <i>salsatus</i> ]	40.283	55.767	[13]

MK461383	<i>P. guttatus kalmykus</i>	<i>P. guttatus guttatus</i>	<b>gu2</b>	ZMMU R-12170	Russia, Kalmykiya, Chernye Zemli Nature Reserve	45.76	45.42	[13]
JF769388	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he1</b>	ZMMU R-12813	Uzbekistan, Kzyl-Orda, Aral, Vozrozhdeniya island	45.15	59.3	[19]
JF769406	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he1</b>	ZMMU R-12157	Kazakhstan, Karaganda, Aktau, 58 km of Aktau - Fort Shevchenko Rd.	44.23	51.6	[19]
JF769405	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he2</b>	ZMMU R-12158	Kazakhstan, Aktyubinsk, Aral, Bolshiye Barsuki, Yuzhnoye	46.18	58.4	[19]
JF769409	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he2</b>	ZMMU R-12151	Uzbekistan, Qoraqalpog`iston, Nukus, Bestube (Beshtube)	42.63	59.67	[19]
JF769410	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he2</b>	ZMMU R-12153-2	Uzbekistan, Qoraqalpog`iston, Kungrad, Road from Ust-Urt	43.991	57.972	[19]
JF769411	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he2</b>	ZMMU R-12153-1	Uzbekistan, Qoraqalpog`iston, Kungrad, Road from Ust-Urt	43.991	57.972	[19]
JF769413	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he2</b>	IZIP Phh-003	Uzbekistan, Qoraqalpog`iston, Zhaslyk	43.933	57.498	[19]
JF769414	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he2</b>	ZMMU R-12150	Uzbekistan, Qoraqalpog`iston, Ravshan (Raushan)	42.93	59.13	[19]
JF756684	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-12519	Kazakhstan, Barsa-Kelmes island	45.7	59.867	[19]
JF769363	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-13241	Kazakhstan, Aralsk - Kamyshlybash road	46.228	61.367	[19]
JF769364	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-13240-2	Kazakhstan, Aralsk env.	46.794	62.133	[19]
JF769365	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-13240-1	Kazakhstan, Aralsk env.	46.794	62.133	[19]
JF769366	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-13240-3	Kazakhstan, Aralsk env.	46.794	62.133	[19]
JF769369	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-13242-3	Kazakhstan, Aralsk	46.8	61.667	[19]
JF769370	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-13242-2	Kazakhstan, Aralsk	46.8	61.667	[19]
JF769371	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-13242-1	Kazakhstan, Aralsk	46.8	61.667	[19]
JF769401	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-12162	Kazakhstan, Aktyubinsk, Aral, Kulandy peninsula	46.04	59.28	[19]

JF769402	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-12160-1	Kazakhstan, Aktyubinsk, Aral, Akespe	46.77	60.5	[19]
JF769403	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-12160-2	Kazakhstan, Aktyubinsk, Aral, Akespe	46.77	60.5	[19]
JF769404	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he3</b>	ZMMU R-12156	Kazakhstan, Aktyubinsk, Northern Aral, Akespe	46.77	60.5	[19]
JF756683	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he4</b>	ZMMU R-12527	Kazakhstan, N Zhanakala settl.	50.217	73.817	[19]
JF769367	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he4</b>	ZMMU R-13242-5	Kazakhstan, Aralsk	46.8	61.667	[19]
JF769368	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he4</b>	ZMMU R-13242-4	Kazakhstan, Aralsk	46.8	61.667	[19]
JF769399	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he4</b>	ZMMU R-12161-1	Kazakhstan, Shymkent, Kyzyl-Kiya, Kyzyl-Kiya	41.64	69.36	[19]
JF769400	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he4</b>	ZMMU R-12161-2	Kazakhstan, Shymkent, Kyzyl-Kiya, Kyzyl-Kiya	41.64	69.36	[19]
JF769407	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he4</b>	ZMMU R-12155-1	Kazakhstan, Aktyubinsk, Northern Ust-Urt, Ozektyk	45.58	57.27	[19]
JF769408	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he4</b>	ZMMU R-12155-2	Kazakhstan, Aktyubinsk, Northern Ust-Urt, Ozektyk	45.58	57.27	[19]
JF769412	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he4</b>	ZMMU R-12152	Uzbekistan, Qoraqalpog`iston, Kungrad, SW from Kungrad	42.683	58.55	[19]
JF769415	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he4</b>	IZIP 0829	Uzbekistan, Qoraqalpog`iston, Kungrad, N from Kungrad, near Ravshan	43.259	58.691	[19]
JF769387	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he5</b>	ZMMU R-12525	Kazakhstan, Mangistau, Kenderli Kayassanskaya reserve zone	42.9	53.417	[19]
KF691716	<i>P. helioscopus</i>	<i>P. helioscopus</i>	<b>he5</b>	ZMMU R-12525-2	Kazakhstan, Mangistau, Kenderli Kayassanskaya reserve zone	42.9	53.417	[12]
MK461422	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi1</b>	ZMMU R-12531	Mongolia, Hovd, 12 km SE Bulgan	46.017	91.633	[15]
MK461424	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi1</b>	ZMMU R-12533	Mongolia, Hovd, 8 km N Uench	46.117	92.05	[15]
MK461425	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi1</b>	ZMMU R-12529	Mongolia, Junggar Gobi, Hovd, 18 km N Altay	45.883	92.433	[15]

MK461430	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi1</b>	ZMMU R-12532	Mongolia, Hovd, 4 km SE Bulgan	46.067	91.6	[15]
MK461461	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi1</b>	ZMMU R-12818	Mongolia, Hovd, Junggaria, 58 km SE from Altay-somon, Sertengiyn-Chuvch foothills	45.65	92.983	[15]
MK461465	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi2</b>	ZMMU R-12833	Mongolia, Bayanhongor, Zaaltayskaya Gobi, Ingen-Khovriyn-Kholoy desert, Nogon-Tzav Rd.	43.633	99.15	[15]
KF691732	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi3</b>	ZMMU R-12837	Mongolia, Umnegov, Zaaltayskaya Gobi, 90 km E from fruit farm in Echiyn-Gol Rd., Sertengiyn-Bosgo Rd. on the W from Tost-Uul mountains	43.217	100.067	[12]
MK461462	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi3</b>	ZMMU R-12828	Mongolia, Bayanhongor, Zaaltayskaya Gobi, 1 km S from fruit farm in Echiyn-Gol Rd.	43.233	99	[15]
MK461464	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi4</b>	ZMMU R-12835	Mongolia, Bayanhongor, Zaaltayskaya Gobi, 25 km E from fruit farm in Echiyn-Gol Rd., E foothills of Chutzin-Chara-Uul mountains	43.2	99.3	[15]
MK461423	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi4</b>	ZMMU R-12530	Mongolia, Govi-Altay, 39 km SE Bayan-Toroy	44.883	96.917	[19]
MK461463	<i>P. hispidus</i>	<i>P. hispidus</i>	<b>hi4</b>	ZMMU R-12827	Mongolia, Bayanhongor, Zaaltayskaya Gobi, 35 km N from fruit farm in Echiyn-Gol Rd., 15 km S from Nogon-Tzav Rd.	43.483	99.117	[15]
GU657525	<i>P. horvathi</i>	<i>P. horvathi</i>	<b>ho</b>	ZMMU R-13243-2	Armenia, near Gorovan	39.917	44.733	[19]
GU657526	<i>P. horvathi</i>	<i>P. horvathi</i>	<b>ho</b>	ZMMU R-13243-1	Armenia, near Gorovan	39.917	44.733	[19]
GU657527	<i>P. horvathi</i>	<i>P. horvathi</i>	<b>ho</b>	ZMMU R-13243-3	Armenia, near Gorovan	39.917	44.733	[19]
GU657528	<i>P. horvathi</i>	<i>P. horvathi</i>	<b>ho</b>	ZMMU R-13243-4	Armenia, near Gorovan	39.917	44.733	[19]

JF769417	<i>P. horvathi</i>	<i>P. horvathi</i>	<b>ho</b>	ZMMU R-3843-1	Armenia, Ararat, Ararat, Sands near Vedi [vicinity of the type locality of <i>horvathi</i> ]	39.933	44.717	[19]
JF769418	<i>P. horvathi</i>	<i>P. horvathi</i>	<b>ho</b>	TLT-200602	Armenia, Armavir	40.067	44.05	[19]
JF769419	<i>P. horvathi</i>	<i>P. horvathi</i>	<b>ho</b>	TLT-200601	Armenia, Armavir	40.067	44.05	[19]
JF769420	<i>P. horvathi</i>	<i>P. horvathi</i>	<b>ho</b>	ZMMU R-12322-1	Armenia, Armavir (Oktemberyan), 1 km SE Khandzan	40.15	44.033	[19]
KF691715	<i>P. horvathi</i>	<i>P. horvathi</i>	<b>ho</b>	ZMMU R-12322-2	Armenia, Armavir (Oktemberyan), 1 km SE Khandzan	40.15	44.033	[12]
MK461441	<i>P. incertus</i>	<i>P. incertus</i>	<b>in1</b>	ZMMU R-13086-1	Kazakhstan, Altin-Emel`	43.972	78.639	[13]
MK461442	<i>P. incertus</i>	<i>P. incertus</i>	<b>in1</b>	ZMMU R-13086-2	Kazakhstan, Altin-Emel`	43.972	78.639	[13]
MK461443	<i>P. incertus</i>	<i>P. incertus</i>	<b>in1</b>	ZMMU R-13086-3	Kazakhstan, Altin-Emel`	43.972	78.639	[13]
MK461444	<i>P. incertus</i>	<i>P. incertus</i>	<b>in1</b>	ZMMU R-13086-4	Kazakhstan, Altin-Emel`	43.972	78.639	[13]
MK461453	<i>P. incertus</i>	<i>P. incertus</i>	<b>in1</b>	ZMMU R-12769	Kazakhstan, Almaty, right board of Kapchagay reservoir [vicinity of the type locality of <i>incertus</i> ]	43.883	77.7	[13]
KF691728	<i>P. incertus</i>	<i>P. incertus</i>	<b>in2</b>	ZMMU R-13088-1	Kazakhstan	46.68	75.45	[12]
MK461447	<i>P. incertus</i>	<i>P. incertus</i>	<b>in2</b>	ZMMU R-13088-2	Kazakhstan	46.68	75.45	[13]
MK461448	<i>P. incertus</i>	<i>P. incertus</i>	<b>in2</b>	ZMMU R-13088-3	Kazakhstan	46.68	75.45	[13]
MK461373	<i>P. incertus</i>	<i>P. incertus</i>	<b>in3</b>	ZMMU R-12179	Kazakhstan, Aktau mts., Kyzyl-Murun	44	79.294	[13]
MK461409	<i>P. incertus</i>	<i>P. incertus</i>	<b>in4</b>	ZMMU R-12333-1	Kazakhstan, Kyzylkum sand desert, near Chorgos River	43.464	78.915	[13]
MK461457	<i>P. incertus</i>	<i>P. incertus</i>	<b>in4</b>	ZMMU R-12674	Kazakhstan, Almaty, Ili Depression, E Karakum sands, 10 km W from Usek Lake	43.883	80.183	[13]
MK461458	<i>P. incertus</i>	<i>P. incertus</i>	<b>in5</b>	ZMMU R-12673	Kazakhstan, Taldy-Kurgan, Ili Depression, W Meinykum sands, 5 km N from Nizhniy Pidzhim	44.15	80.217	[13]
MK461459	<i>P. incertus</i>	<i>P. incertus</i>	<b>in5</b>	ZMMU R-12671	Kazakhstan, Taldy-Kurgan, Ili Depression, sands on the right side of Zharkent Khorgos route	44.217	80.25	[13]



MK461418	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it1</b>	ZMMU R-12260-1	Uzbekistan, Navoi, Yamankum Desert, 3 - 4 W from Aktakyr	41.736	64.023	<i>this study</i>
MK461415	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it1</b>	ZMMU R-12277-1	Uzbekistan, Bukhara, 30.5 km NE from Kyzylarvat [vicinity of the type locality of <i>interscapularis</i> ]	40.698	62.448	<i>this study</i>
MK461472	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it1</b>	105int3	Uzbekistan, Kyzylkum sands, 47 km N Uzunkuduk	41.53	63.22	<i>this study</i>
MK461417	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it1</b>	ZMMU R-12254-1	Uzbekistan, Navoi, 5 km NW Terankuduk	40.871	65.394	<i>this study</i>
MK461473	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it1</b>	105int4	Uzbekistan, Kyzylkum sands, 47 km N Uzunkuduk	41.53	63.22	<i>this study</i>
MK461390	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it1</b>	ZMMU R-12148	Uzbekistan, Qoraqalpog'iston, Central Kyzylkum, Tamdy	41.75	64.62	<i>this study</i>
MK461363	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it2</b>	ZMMU R-12145	Uzbekistan, Tasmankul Lake	43.133	59.567	<i>this study</i>
MK461387	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it2</b>	ZMMU R-12144	Uzbekistan, Qoraqalpog'iston, Mynbklak valley, Minbulan (Minbulak)	42.25	62.86	<i>this study</i>
KF691704	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it3</b>	ZMMU R-12268	Uzbekistan, Qoraqalpog'iston, near Chukurkak	42.649	61.554	[12]
MK461370	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it4</b>	ZMMU R-12147	Uzbekistan, Sands near Zafar	40.99	68.88	<i>this study</i>
MK461371	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it4</b>	ZMMU R-12143-1	Uzbekistan, Qoraqalpog'iston, Ravshan (Raushan)	42.93	59.13	<i>this study</i>
MK461372	<i>P. interscapularis</i>	<i>P. interscapularis</i>	<b>it4</b>	ZMMU R-12143-2	Uzbekistan, Qoraqalpog'iston, Ravshan (Raushan)	42.93	59.13	<i>this study</i>
KF691714	<i>P. khorasanus</i>	<i>P. khorasanus</i>	<b>kh</b>	ZMMU R-13009-2	Iran, Khorasan, Boshruyeh	33.9	57.5	[12]
MF567974	<i>P. khorasanus</i>	<i>P. khorasanus</i>	<b>kh</b>	ZMMU R-13169	Iran, Khorasan Razavi, Gonabad [type locality of <i>khorasanus</i> ]	34.58	58.8	[21]
MF567975	<i>P. khorasanus</i>	<i>P. khorasanus</i>	<b>kh</b>	ZMMU R-11913	Iran, Khorasan Razavi, Gonabad	34.58	58.8	[21]
MF567983	<i>P. khorasanus</i>	<i>P. khorasanus</i>	<b>kh</b>	ZMMU R-12202	Iran, Khorasan Razavi, Gonabad	34.36	58.44	[21]
MF567987	<i>P. khorasanus</i>	<i>P. khorasanus</i>	<b>kh</b>	ZMMU R-13011-1	Iran, Khorasan Razavi, Gonabad	34.58	58.8	[21]
MF567988	<i>P. khorasanus</i>	<i>P. khorasanus</i>	<b>kh</b>	ZMMU R-13011-2	Iran, Khorasan Razavi, Gonabad	34.58	58.8	[21]
MF567989	<i>P. khorasanus</i>	<i>P. khorasanus</i>	<b>kh</b>	ZMMU R-13009-1	Iran, Khorasan, Boshruyeh	33.9	57.5	[21]

MK461429	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku1</b>	ZMMU R-12534	Mongolia, 22 km NE Sharga	46.3	95.55	[15]
MK461467	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku1</b>	ZMMU R-12830	Mongolia, Govi-Altay, SE Shargyn-Gobi, 3 km S from Olon-Bulag	46.067	95.65	[15]
MK461468	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku1</b>	ZMMU R-12829	Mongolia, Govi-Altay, S Shargyn-Gobi, 40 km E from Tugreg-somon, near Tzachir-Chuduk	45.983	95.4	[15]
MK461388	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku1</b>	ZMMU R-12182-1	Mongolia, Shargyn-Gobi, 30 km S from Somon Sharga, Ikh Berkh Tolgoim Mt.	46.25	95.28	[15]
MK461389	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku1</b>	ZMMU R-12182-2	Mongolia, Shargyn-Gobi, 30 km S from Somon Sharga, Ikh Berkh Tolgoim Mt.	46.25	95.28	[15]
KF691735	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku2</b>	ZMMU R-12939-2	Russia, Tyva, Tes-Khem, Ubsu-Nur Depression, Tzuger-els sands [type locality of <i>kulagini</i> ]	50.65	93.25	[12]
MK461470	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku2</b>	ZMMU R-12939-1	Russia, Tyva, Tes-Khem, Ubsu-Nur Depression, Tzuger-els sands	50.65	93.25	[15]
MK461437	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku2</b>	ZMMU R-12978-1	Russia, Tyva, Erzinskyi raion, Tsagan-Tolgoi	50.01	95.42	[15]
MK461438	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku2</b>	ZMMU R-12978-2	Russia, Tyva, Erzinskyi raion, Tsagan-Tolgoi	50.01	95.42	[15]
MK461439	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku2</b>	ZMMU R-12979-1	Russia, Tyva, Tes-Hemenskyi raion, Shara-Nur Lake	50.22	94.52	[15]
MK461440	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku2</b>	ZMMU R-12979-2	Russia, Tyva, Tes-Hemenskyi raion, Shara-Nur Lake	50.22	94.52	[15]
MK461436	<i>P. kulagini</i>	<i>P. kulagini</i>	<b>ku3</b>	ZMMU R-12977-1	Russia, Tyva, Erzinskyi raion, Tora-Kholv Lake	50.01	95.03	[15]
MK461358	<i>P. kuschakewitschii</i>	<i>P. kuschakewitschii</i>	<b>ks1</b>	ZMMU R-12176-2	Kazakhstan, Kyzyl-Agach	45.37	78.73	[15]
MK461359	<i>P. kuschakewitschii</i>	<i>P. kuschakewitschii</i>	<b>ks1</b>	ZMMU R-12176-1	Kazakhstan, Kyzyl-Agach	45.37	78.73	[15]
KP279760/NC 029186	<i>P. albolineatus</i>	<i>P. kuschakewitschii</i>	<b>ks2</b>	no voucher	China, Xinjiang, Tachen	46.696	82.739	[23]

KF691727	<i>P. kuschakewitschii</i>	<i>P. kuschakewitschii</i>	<b>ks3</b>	ZMMU R-12173	Kazakhstan, southern edge of sands near the confluence of Shagantogai and Emel rivers [vicinity of the type locality of <i>kuschakewitschii</i> ]	46.26	82.21	[12]
MK461395	<i>P. kuschakewitschii</i>	<i>P. kuschakewitschii</i>	<b>ks3</b>	ZMMU R-12173	Kazakhstan, southern edge of sands near the confluence of Shagantogai and Emel rivers	46.26	82.21	[13]
MK461362	<i>P. kuschakewitschii</i>	<i>P. kuschakewitschii</i>	<b>ks4</b>	ZMMU R-12171	Kazakhstan, Zharbulak	46.16	82.13	[13]
KJ551842	<i>P. theobaldi orientalis</i>	<i>P. lhasaensis</i>	<b>lh</b>	no voucher	China, Tibet, Xizang, environs of Rutog [vicinity of the type locality of <i>lhasaensis</i> ]	33.68	80.31	[25]
KF691737	<i>P. longicaudatus</i>	<i>P. longicaudatus</i>	<b>lo1</b>	ZMMU R-13899	Oman, 40 km NE Filim	20.98	57.78	[12]
KT182066	<i>P. longicaudatus</i>	<i>P. longicaudatus</i>	<b>lo1</b>	ZISP 28777	Oman, no exact locality	-	-	[18]
MW940424	<i>P. longicaudatus</i>	<i>P. longicaudatus</i>	<b>lo2</b>	ERP 5755	Iraq, Al Naseriyah province	-	-	[87]
MW940425	<i>P. longicaudatus</i>	<i>P. longicaudatus</i>	<b>lo2</b>	ERP 5756	Iraq, Al Naseriyah province	-	-	[87]
OP970517	<i>P. lutensis</i>	<i>P. lutensis</i>	<b>lu6</b>	RAN_4305	Iran, Dash-e Lut [type locality of <i>lutensis</i> ]	30.45	59.35	<i>this study</i>
OP970516	<i>P. lutensis</i>	<i>P. lutensis</i>	<b>lu1</b>	no voucher	Iran, Dash-e Lut	30.45	59.35	<i>this study</i>
MW940421	<i>P. lutensis</i>	<i>P. lutensis</i>	<b>lu3</b>	ERP 6498	Pakistan- Nushki	-	-	[87]
MW940422	<i>P. lutensis</i>	<i>P. lutensis</i>	<b>lu4</b>	ERP 6499	Pakistan- Nushki	-	-	[87]
MW940423	<i>P. lutensis</i>	<i>P. lutensis</i>	<b>lu2</b>	ERP 6501	Pakistan- Nushki	-	-	[87]
MW940443	<i>P. lutensis</i>	<i>P. lutensis</i>	<b>lu9</b>	ERP 6485	Iran, Kerman province, Rige Yalan	34.92	52.25	[87]
MW940444	<i>P. lutensis</i>	<i>P. lutensis</i>	<b>lu7</b>	ERP 6486	Iran, Kerman province, Rige Yalan	34.92	52.25	[87]
MW940445	<i>P. lutensis</i>	<i>P. lutensis</i>	<b>lu8</b>	ERP 6487	Iran, Kerman province, Rige Yalan	34.92	52.25	[87]
MW940446	<i>P. lutensis</i>	<i>P. lutensis</i>	<b>lu5</b>	ERP 6488	Iran, Kerman province, Rige Yalan	34.92	52.25	[87]
KT182065	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma1</b>	ZISP 28776	Iran, no exact locality	-	-	[18]
MW940408	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma10</b>	ERP 4408	Iran, Maranjab	-	-	[87]
MW940410	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma10</b>	ERP 4693	Iran, IsfahanIsfahan province, Kashan	-	-	[87]
MW940415	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma10</b>	ERP 5428	Iran, Qom province, Qom	-	-	[87]
MW940405	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma11</b>	ERP 1937	Iran, Yazd province	32.05	54.2	[87]
MW940409	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma11</b>	ERP 4409	Iran, Kavire Lut	-	-	[87]
MW940412	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma11</b>	ERP 4969	Iran, Yazd province, Dareh Anjir	32.56	54.95	[87]
MW940407	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma12</b>	ERP 4407	Iran, Yazd province, Yazd	-	-	[87]

MW940411	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma12</b>	ERP 4941	Iran, Isfahan province, Anarak to Khor	33.65	54.42	[87]
MW940419	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma12</b>	ERP 6000	Iran, South Khorasan-Nehbandan	30.9366	60.0725	[87]
MW940427	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma12</b>	ERP 7301	Iran, Isfahan province, Near Chupanan	-	-	[87]
MW940413	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma13</b>	ERP 5426	Iran, Qom province, Qom	-	-	[87]
MW940414	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma14</b>	ERP 5427	Iran, Qom province, Qom	-	-	[87]
MW940420	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma15</b>	ERP 6121	Iran, Isfahan province, AranoBidgol	-	-	[87]
MW940426	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma16</b>	ERP 7300	Iran, Isfahan province, Near Chupanan	-	-	[87]
MW940428	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma17</b>	ERP 8723	Iran, South Khorasan province	-	-	[87]
MW940440	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma18</b>	ERP 8801	Iran, Kerman province, Sirjan	29.446	55.48	[87]
KF691707	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma2</b>	ZMMU R-13029	Iran, Isfahan, Chupanan	33.52	54.25	[12]
MK461433	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma2</b>	ZMMU R-13028-3	Iran, Isfahan, Mesr	34.03	54.9	<i>this study</i>
MK461398	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma2</b>	ZMMU R-12206-1	Iran, Khorasan, Dev-e Salm [vicinity of the type locality of <i>maculatus</i> ]	31.517	59.333	<i>this study</i>
MK461399	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma2</b>	ZMMU R-12206-2	Iran, Khorasan, Dev-e Salm	31.517	59.333	<i>this study</i>
MK461421	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma2</b>	ZMMU R-12206-1	Iran, Khorasan, near Deh-e Salm	31.2	59.317	<i>this study</i>
MK461431	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma2</b>	ZMMU R-13028-1	Iran, Isfahan, Mesr	34.03	54.9	<i>this study</i>
MK461432	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma2</b>	ZMMU R-13028-2	Iran, Isfahan, Mesr	34.03	54.9	<i>this study</i>
MW940430	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma3</b>	ERP 8786	Iran, Kerman province, Rafsanjan	30.721	55.96	[87]
MW940431	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma3</b>	ERP 8787	Iran, Kerman province, Rafsanjan	30.721	55.96	[87]
MW940432	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma3</b>	ERP 8788	Iran, Kerman province, Rafsanjan	30.721	55.96	[87]
MW940433	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma3</b>	ERP 8789	Iran, Kerman province, Rafsanjan	30.721	55.96	[87]
MW940434	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma3</b>	ERP 8790	Iran, Kerman province, Rafsanjan	30.721	55.96	[87]
MW940435	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma3</b>	ERP 8791	Iran, Kerman province, Rafsanjan	30.721	55.96	[87]
MW940401	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma4</b>	ERP 681	Iran, Khorasan province, Eshgh abad	-	-	[87]
MW940404	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma4</b>	ERP 1740	Iran, Isfahan province, Khor	33.75	55.94	[87]
MW940406	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma5</b>	ERP 4406	Iran, Yazd province, Yazd	-	-	[87]
MW940402	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma6</b>	ERP 1591	Iran, Semnan province, parke melli Kavir	34.92	52.25	[87]

MW940403	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma7</b>	ERP 1592	Iran, Semnan province, parke melli Kavir	34.92	52.25	[87]
MW940416	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma8</b>	ERP 5995	Iran, South Khorasan-Nehbandan	31.1871	59.2395	[87]
MW940417	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma9</b>	ERP 5996	Iran, South Khorasan-Nehbandan	31.1871	59.2395	[87]
MW940418	<i>P. maculatus</i>	<i>P. maculatus</i>	<b>ma9</b>	ERP 5999	Iran, South Khorasan-Nehbandan	30.9366	60.0725	[87]
KF691725	<i>P. melanurus</i>	<i>P. melanurus</i>	<b>me1</b>	ZMMU R-12332	Kazakhstan, East Kazakhstan, west bank of Buchtarma Reservoir, near Kyzylkum	48.839	83.431	[12]
MK461427	<i>P. melanurus</i>	<i>P. melanurus</i>	<b>me1</b>	ZMMU R-12510	W bank of Boukhtorma artificial water-basin	48.839	83.431	[13]
MK461377	<i>P. melanurus</i>	<i>P. melanurus</i>	<b>me2</b>	087-1, no voucher	Kazakhstan, Aigyrkun Sands	47.64	85.23	[13]
MK461378	<i>P. melanurus</i>	<i>P. melanurus</i>	<b>me2</b>	087-2, no voucher	Kazakhstan, Chernyi Irtysh river	47.9	85.01	[13]
MK461426	<i>P. melanurus</i>	<i>P. melanurus</i>	<b>me2</b>	ZMMU R-12509	Kazakhstan, Zaisan settl. [vicinity of the type locality of <i>melanurus</i> ]	47.656	85.548	[13]
MK461452	<i>P. melanurus</i>	<i>P. melanurus</i>	<b>me2</b>	ZMMU R-12767	Kazakhstan, Taldy-Kurgan, Karatal river	45.667	77.25	[13]
JF769376	<i>P. meridionalis</i>	<i>P. meridionalis</i>	<b>mr1</b>	ZMMU R-12803	Uzbekistan, Bukhara, near Kagan town, Dzheyran farm	39.567	64.7	[19]
JF769377	<i>P. meridionalis</i>	<i>P. meridionalis</i>	<b>mr2</b>	ZMMU R-12801-1	Uzbekistan, Surkhandaria, N from Aktash, in Pashchurt's direction [type locality of <i>meridionalis</i> ]	37.583	66.667	[19]
MK461455	<i>P. moltschanovi</i>	<i>P. moltschanovi</i>	<b>mo1</b>	ZMMU R-12776	Kazakhstan, Kzyl-Orda, Aralsk town	45.883	60.317	[13]
KF691730	<i>P. moltschanovi</i>	<i>P. moltschanovi</i>	<b>mo2</b>	ZMMU R-12942	Uzbekistan, Qoraqalpog'iston, Karakalpakia, S from Beltau Hills, 63 km ENE from Takhtakupyr [vicinity of the type locality of <i>moltschanovi</i> ]	43.333	60.917	[12]
MF567980	<i>P. mystaceus aurantiacocaudatus</i>	<i>P. mystaceus aurantiacocaudatus</i>	<b>my1</b>	ZMMU R-12778	Kazakhstan, Pidzhim env.	44.2	80.183	[21]
MF567984	<i>P. mystaceus aurantiacocaudatus</i>	<i>P. mystaceus aurantiacocaudatus</i>	<b>my1</b>	ZMMU R-12518-2	SE Kazakhstan, left bank of Ili River, 125 km of the road Almaty-Bakanas	44.429	76.792	[21]
MF567991	<i>P. mystaceus aurantiacocaudatus</i>	<i>P. mystaceus aurantiacocaudatus</i>	<b>my1</b>	ZMMU R-14715-1	Kazakhstan, S Balkhash Lake, N of Matay	45.989	78.843	[21]

MF567992	<i>P. mystaceus aurantiacocaudatus</i>	<i>P. mystaceus aurantiacocaudatus</i>	<b>my1</b>	ZMMU R-14715-2	Kazakhstan, S Balkhash Lake, N of Matay	45.989	78.843	[21]
MF567993	<i>P. mystaceus aurantiacocaudatus</i>	<i>P. mystaceus aurantiacocaudatus</i>	<b>my1</b>	ZMMU R-14715-3	Kazakhstan, S Balkhash Lake, N of Matay	45.989	78.843	[21]
MF567994	<i>P. mystaceus aurantiacocaudatus</i>	<i>P. mystaceus aurantiacocaudatus</i>	<b>my1</b>	NAP-05510	Kazakhstan, Kabanbay (Andreevka) env.	45.939	80.646	[21]
MF567995	<i>P. mystaceus aurantiacocaudatus</i>	<i>P. mystaceus aurantiacocaudatus</i>	<b>my1</b>	ZMMU R-14715-4	Kazakhstan, S Balkhash Lake, N of Matay	45.989	78.843	[21]
MF567972	<i>P. mystaceus aurantiacocaudatus</i>	<i>P. mystaceus aurantiacocaudatus</i>	<b>my2</b>	ZMMU R-12140-1	E Kazakhstan, N Kapchagai Reservoir [vicinity of the type locality of <i>aurantiacocaudatus</i> ]	43.87	77.73	[21]
MF567973	<i>P. mystaceus aurantiacocaudatus</i>	<i>P. mystaceus aurantiacocaudatus</i>	<b>my2</b>	ZMMU R-12140-2	E Kazakhstan, N Kapchagai Reservoir	43.87	77.73	[21]
MF567970	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my3</b>	ZMMU R-12141	Kazakhstan, N Priaralye, S border of Malye Barsuki sands	46.96	60.19	[21]
MF567985	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my3</b>	ZMMU R-12517-2	Kazakhstan, N Priaralye, S border of Malye Barsuki sands	47.34	60.75	[21]
MF567979	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my4</b>	ZMMU R-12799	Tajikistan, Shaartuz	36.9	67.93	[21]
MF567982	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my4</b>	ZMMU R-12772	Kazakhstan, Aralsk	53.88	63.327	[21]
MF567968	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my5</b>	ZMMU R-12149-1	Russia, Astrakhan, Dosang	46.88	47.92	[21]
MF567969	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my5</b>	ZMMU R-12149-2	Russia, Astrakhan, Dosang	46.88	47.92	[21]
MF567986	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my5</b>	ZMMU R-12457-3	Russia, Astrakhan, Dosang	47.16	48.25	[21]
MF567977	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my6</b>	ZMMU R-12252	Uzbekistan, Navoi, 5 km NW Terankuduk	40.87	65.39	[21]
KF691713	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my7</b>	ZMMU R-12261	Uzbekistan, Navoi, Yamankum Desert, 3 - 4 W from Aktakyr	41.74	64.02	[21]
MF567978	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my7</b>	ZMMU R-12266	Uzbekistan, Qarakalpaqiston Republic, Chukurkak	42.65	61.55	[21]
MF567981	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my7</b>	ZMMU R-12775	Uzbekistan, Qarakalpaqiston Republic	41.57	61.02	[21]
MF567990	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my7</b>	ZMMU R-12457-2	Russia, Astrakhan, Dosang	47.16	48.25	[21]

MF567971	<i>P. mystaceus mystaceus</i>	<i>P. mystaceus mystaceus</i>	<b>my3</b>	ZMMU R-12141-1	Kazakhstan, N Priaralye, S border of Malye Barsuki sands	46.96	60.19	[21]
MF039061	<i>P. vlangalii nanschanica</i>	<i>P. nanschanicus</i>	<b>nn</b>	-	China, Nanshan Mountains, Southern Danghe range, Northern QTP	38.97	96.06	[86]
KT182061	<i>P. nejdensis</i>	<i>P. nejdensis</i>	<b>ne</b>	ZISP 27091	Jordan, Mudawara	29.33	36.03	[18]
KT182062	<i>P. nejdensis</i>	<i>P. nejdensis</i>	<b>ne</b>	ZISP 26642	Jordan, Wadi Ram, southern Jordan	29.47	35.39	[18]
KT182063	<i>P. nejdensis</i>	<i>P. nejdensis</i>	<b>ne</b>	ZISP 27092	Jordan, Mudawara	29.33	36.03	[18]
KT182064	<i>P. nejdensis</i>	<i>P. nejdensis</i>	<b>ne</b>	ZISP 26643	Jordan, Wadi Ram, southern Jordan	29.47	35.39	[18]
MK461450	<i>P. ocellatus</i>	<i>P. ocellatus</i>	<b>oc1</b>	ZMMU R-12779	Uzbekistan, Bukhara, 30 km S from Bukhara, near Kagan town, Dzheyran farm	39.567	64.717	<i>this study</i>
MK461479	<i>P. ocellatus</i>	<i>P. ocellatus</i>	<b>oc2</b>	305oc1	Uzbekistan, Kyzylkum sands, 36 km N Gazli	40.33	63.8	<i>this study</i>
MK461414	<i>P. ocellatus</i>	<i>P. ocellatus</i>	<b>oc3</b>	ZMMU R-12316	Uzbekistan, Bukhara, 40 km N from Gazli, N border of Karakir Lake [vicinity of the type locality of <i>ocellatus</i> ]	40.38	63.26	<i>this study</i>
MK461480	<i>P. ocellatus</i>	<i>P. ocellatus</i>	<b>oc4</b>	305oc2	Uzbekistan, Kyzylkum sands, 36 km N Gazli	40.33	63.8	<i>this study</i>
MK461481	<i>P. ocellatus</i>	<i>P. ocellatus</i>	<b>oc4</b>	305oc3	Uzbekistan, Kyzylkum sands, 36 km N Gazli	40.33	63.8	<i>this study</i>
KJ630904	<i>P. parvus</i>	<i>P. parvus</i>	<b>pa</b>	no voucher	China, Qinhai, Tuotuo River (Ulan Moron) [vicinity of the type locality of <i>parvus</i> ]	34.09	92.91	[26]
JF756688	<i>P. persicus</i>	<i>P. persicus</i>	<b>pe</b>	FH_10_1, no voucher	Iran, Markasi, Arak env.	34.24	49.75	[19]
KF691722	<i>P. putjatai</i>	<i>P. putjatai</i>	<b>pu1</b>	KIZ 020238	China, Qinghai, env. of. Qinghai Lake	36.72	100.79	[12]
MK461411	<i>P. putjatai</i>	<i>P. putjatai</i>	<b>pu1</b>	ZMMU R-12308-1	China, Qinghai, Qinghay-Tibet table, NE border of Kukunor (Qinghay) Lake	37.28	100.75	<i>this study</i>
MK461404	<i>P. putjatai</i>	<i>P. putjatai</i>	<b>pu1</b>	ZMMU R-12308-1	China, Qinghai, Qinhai-Tibet plateau, N coast of the Kukunor Lake, N coast of the Kukunor Lake	37.28	100.75	<i>this study</i>

MK461405	<i>P. putjatai</i>	<i>P. putjatai</i>	<b>pu2</b>	ZMMU R-12308-2	China, Qinghai, Qinhai-Tibet plateau, N coast of the Kukur Lake, N coast of the Kukur Lake	37.28	100.75	<i>this study</i>
KJ830752	<i>P. putjatai</i>	<i>P. putjatai</i>	<b>pu3</b>	-	China, Nanhai Temple, Guide county, Qinghai Province [type locality of <i>putjatai</i> ]	-	-	[147]
KJ885621	<i>P. guinanensis</i>	<i>P. putjatai</i>	<b>pu4</b>	-	China, Guinan county, Qinghai Province [type locality of <i>guinanensis</i> ]	-	-	[148]
MK461400	<i>P. raddei</i>	<i>P. raddei</i>	<b>ra</b>	ZMMU R-4033	Turkmenistan, Serakhs (Saragt)	36.53	61.21	<i>this study</i>
MK461449	<i>P. rossikowi</i>	<i>P. rossikowi</i>	<b>ro1</b>	ZMMU R-12795	Turkmenistan, Chardzhou, Dargan-Ata, Lebap	41.05	61.87	<i>this study</i>
MG739300	<i>P. rossikowi</i>	<i>P. rossikowi</i>	<b>ro2</b>	ZMMU R-12795	Turkmenistan, Chardzhou, Dargan-Ata, Lebap	41.05	61.87	[2]
JF769373	<i>P. saidalievi</i>	<i>P. saidalievi</i>	<b>sa1</b>	ZMMU R-12802-2	Uzbekistan, Namangan, Fergana Depression, Pabskaya steppe, near Chodak and Koshmior [type locality of <i>saidalievi</i> ]	40.88	70.8	[19]
JF769374	<i>P. saidalievi</i>	<i>P. saidalievi</i>	<b>sa1</b>	ZMMU R-12802-1	Uzbekistan, Namangan, Fergana Depression, Pabskaya steppe, near Chodak and Koshmior	40.88	70.8	[19]
KF691717	<i>P. saidalievi</i>	<i>P. saidalievi</i>	<b>sa1</b>	ZMMU R-12802	Uzbekistan, Namangan, Fergana Depression, Pabskaya steppe, near Chodak and Koshmior	40.88	70.8	[12]
JF769375	<i>P. saidalievi</i>	<i>P. saidalievi</i>	<b>sa2</b>	ZMMU R-12678	Uzbekistan, Fergana, Fergana Depression, 25 km N from Kokand	40.78	70.97	[19]
KT182048	<i>P. sakoi</i>	<i>P. sakoi</i>	<b>sk</b>	ZISP 28705	Oman, Al Sharqiyah Sands, Filim vicinity [type locality of <i>sakoi</i> ]	20.69	58.29	[18]
KT182049	<i>P. sakoi</i>	<i>P. sakoi</i>	<b>sk</b>	ZISP 28706	Oman, Al Sharqiyah Sands, Filim vicinity	20.69	58.29	[18]
KT182050	<i>P. sakoi</i>	<i>P. sakoi</i>	<b>sk</b>	ZISP 28710	Oman, Al Sharqiyah Sands, Filim vicinity	20.69	58.29	[18]



KT182051	<i>P. sakoi</i>	<i>P. sakoi</i>	<b>sk</b>	ZISP 28711	Oman, Al Sharqiyah Sands, Filim vicinity	20.689	58.295	[18]
KT182052	<i>P. sakoi</i>	<i>P. sakoi</i>	<b>sk</b>	ZISP 28712	Oman, Al Sharqiyah Sands, Filim vicinity	20.689	58.295	[18]
KT182047	<i>P. sakoi</i>	<i>P. sakoi</i>	<b>sk</b>	ZISP 27089	Oman, 50 km from Sur	20.689	58.295	[18]
MK461403	<i>P. scutellatus</i>	<i>P. scutellatus</i>	<b>sc1</b>	ZMMU R-11891	Iran, Semnan, Daverabad, 20 km SW Daverabad	35	52.45	<i>this study</i>
KF691712	<i>P. scutellatus</i>	<i>P. scutellatus</i>	<b>sc2</b>	ZMMU R-13020-3	Iran, Isfahan, Chupanan [vicinity of the type locality of <i>scutellatus</i> ]	33.52	54.25	[12]
MK461445	<i>P. scutellatus</i>	<i>P. scutellatus</i>	<b>sc2</b>	ZMMU R-13020-1	Iran, Isfahan, Chupanan	33.52	54.25	<i>this study</i>
MK461446	<i>P. scutellatus</i>	<i>P. scutellatus</i>	<b>sc2</b>	ZMMU R-13020-2	Iran, Isfahan, Chupanan	33.52	54.25	<i>this study</i>
JF769393	<i>P. sergeevi</i>	<i>P. sergeevi</i>	<b>se1</b>	ZMMU R-12264_1	Uzbekistan, Navoi, SE border TamdyTau Mts., 40 km from Zaravshan, between Tamdybulak and Yangitamdy [type locality of <i>sergeevi</i> ]	41.702	64.033	[19]
JF769390	<i>P. sergeevi</i>	<i>P. sergeevi</i>	<b>se2</b>	ZMMU R-12310	Uzbekistan, Bukhara, SW Kyzylkumy, Kuldzhuktau Mts.	40.783	63.483	[19]
JF769391	<i>P. sergeevi</i>	<i>P. sergeevi</i>	<b>se2</b>	ZMMU R-12286	Uzbekistan, Bukhara, near Kuldzhuktau Mts. and Dzhangyldy	40.797	63.608	[19]
JF769392	<i>P. sergeevi</i>	<i>P. sergeevi</i>	<b>se2</b>	ZMMU R-12281_1	Uzbekistan, Bukhara, near Kuldzhuktau Mts. 8 km W from Shuruk, near Desert Botanic Station	40.729	63.756	[19]
JF769395	<i>P. sergeevi</i>	<i>P. sergeevi</i>	<b>se2</b>	ZMMU R-12167	Uzbekistan, Qoraqalpog'iston, Central Kyzylkum, 10 km NE from Zarafshan	41.65	64.3	[19]
MK461408	<i>P. sergeevi</i>	<i>P. sergeevi</i>	<b>se2</b>	ZMMU R-12310	Uzbekistan, SW Kyzylkum, Kuldjuktai	40.78	63.48	<i>this study</i>
JF769394	<i>P. sergeevi</i>	<i>P. sergeevi</i>	<b>se3</b>	ZMMU R-12259_1	Uzbekistan, Navoi, Karakata Depression, 60 km NW from Zafarabad	40.931	64.654	[19]

JF769396	<i>P. sergeevi</i>	<i>P. sergeevi</i>	<b>se3</b>	ZMMU R-12166	Uzbekistan, Bukhara, Bukhara, Ayakagytma Lake environs	40.57	64.68	[19]
KF691705	<i>P. sogdianus</i>	<i>P. sogdianus</i>	<b>so1</b>	ZMMU R-12800	Uzbekistan, Surkhondaryo Viloyati, 10 - 15 km from Dzharkurgan in Termez direction	37.333	67.367	[12]
MK461416	<i>P. sogdianus</i>	<i>P. sogdianus</i>	<b>so1</b>	ZMMU R-12287-1	Uzbekistan, Surkhondaryo Viloyati, Termez, , 32 km SE from Sherabad and W from Dzharkurgan	37.514	67.373	<i>this study</i>
MK461482	<i>P. sogdianus</i>	<i>P. sogdianus</i>	<b>so2</b>	ZMMU R-13396-2	Tajikistan, Shakh Aktau foothills [vicinity of the type locality of <i>sogdianus</i> ]	37.313	68.292	<i>this study</i>
MK461483	<i>P. sogdianus</i>	<i>P. sogdianus</i>	<b>so2</b>	ZMMUR-13396-1	Tajikistan, Shakh desert, Kurdzhalakum	37.163	68.492	<i>this study</i>
MK461367	<i>P. strauchi</i>	<i>P. strauchi</i>	<b>st1</b>	ZMMU R-11386-2	Uzbekistan, Fergana, 40 km form Kokand to Nadijan	40.69	71.9	<i>this study</i>
MK461451	<i>P. strauchi</i>	<i>P. strauchi</i>	<b>st2</b>	ZMMU R-12785	Tajikistan, Sughd, Leninabad, Fergana Depression, near Kayrakum reservoir [vicinity of the type locality of <i>strauchi</i> ]	40.333	70.033	<i>this study</i>
MK461391	<i>P. strauchi</i>	<i>P. strauchi</i>	<b>st3</b>	ZMMU R-12142	Uzbekistan, Fergana, Kokand, Kokand environs	40.69	71.9	<i>this study</i>
KF691711	<i>P. strauchi</i>	<i>P. strauchi</i>	<b>st1</b>	ZMMU R-11386-1	Uzbekistan, Fergana, 40 km form Kokand to Nadijan	40.69	71.9	[12]
KF691721	<i>P. theobaldi</i>	<i>P. theobaldi</i>	<b>th1</b>	ZMMU R-10816	India, Jammu-and-Kashmir, Ladakh, Rupshu river, Teokar valley [type locality of <i>theobaldi</i> ]	33.01	77.99	[12]
MK461380	<i>P. theobaldi</i>	<i>P. theobaldi</i>	<b>th1</b>	ZMMU R-12139-2	India, Jammu-Kashmir, Ladakh, Rupshu river, Teokar valley	33.01	77.99	<i>this study</i>
MK461379	<i>P. theobaldi</i>	<i>P. theobaldi</i>	<b>th1</b>	ZMMU R-12139-1	India, Jammu-Kashmir, Ladakh, Rupshu river, Teokar valley	33.01	77.99	<i>this study</i>
MK461376	<i>P. theobaldi</i>	<i>P. theobaldi</i>	<b>th1</b>	ZMMU R-12138-1	India, Jammu-Kashmir, Ladakh	33.02	77.07	<i>this study</i>
KF691723	<i>P. theobaldi</i>	<i>P. theobaldi</i>	<b>th2</b>	ZMMU R-12138-2	India, Jammu-Kashmir, Ladakh	33.02	77.07	[12]
MK461413	<i>P. scutellatus</i>	<i>P. tickelii</i>	<b>ti</b>	ZMMU R-12315	Iran, Khorasan, near Nechbandan [vicinity of the type locality of <i>tickelii</i> ]	31.6	59.55	<i>this study</i>

JF769386	<i>P. turcomanus</i>	<i>P. turcomanus</i>	<b>tu</b>	ZMMU R-12789	Turkmenistan, Balkan, 70 km SE from Nebit-Dag [type locality of <i>turcomanus</i> ]	38.967	54.917	[19]
JF769385	<i>P. varius</i>	<i>P. varius</i>	<b>va4</b>	ZMMU R-12810	Kazakhstan, Taldy-Kurgan, near Baschi and Kalinino	44.167	78.783	[19]
MK461382	<i>P. varius</i>	<i>P. varius</i>	<b>va3</b>	ZMMU R-12164	Kazakhstan, Border of Alma-Aty and E Kazakhstan provinces, Lake Zhalanashkol	45.4	82.09	<i>this study</i>
HQ543966	<i>P. varius</i>	<i>P. varius</i>	<b>va1</b>	ZMMU R-13089_1	China, Xinjiang, Toli	45.98	83.54	[12]
JF769383	<i>P. varius</i>	<i>P. varius</i>	<b>va2</b>	ZMMU R-12903_2	Mongolia, Hovd, Ikcher-Toli on the W from Bulgan town	46.1	91.35	[19]
JF769384	<i>P. varius</i>	<i>P. varius</i>	<b>va2</b>	ZMMU R-12903_1	Mongolia, Hovd, Ikcher-Toli on the W from Bulgan town	46.1	91.35	[19]
JF769397	<i>P. varius</i>	<i>P. varius</i>	<b>va2</b>	ZMMU R-12163-1	Kazakhstan, East Kazakhstan, Semey-Tau Mt., Scherbakovka environs	50.08	79.41	[19]
JF769398	<i>P. varius</i>	<i>P. varius</i>	<b>va2</b>	ZMMU R-12163-2	Kazakhstan, East Kazakhstan, Semey-Tau Mt., Scherbakovka environs	50.08	79.41	[19]
JF756685	<i>P. varius</i>	<i>P. varius</i>	<b>va3</b>	ZMMU R-12524	Kazakhstan, Zhalanashkol env.	45.571	82.212	[19]
KJ749841	<i>P. przewalskii</i>	<i>P. p. przewalskii</i>	<b>pr1</b>	-	China, Inner Mongolia, Alxa League	38.833	105.667	[24]
KF691734	<i>P. przewalskii</i>	<i>P. p. przewalskii</i>	<b>pr2</b>	ZMMU R-8900	China, Gansu, Lanzhou, university territory	36.03	103.41	[12]
MK461471	<i>P. versicolor</i>	<i>P. p. versicolor</i>	<b>ve1</b>	ZMMU R-12940	Mongolia, Umnegov, 8 - 10 km S from Bayan-Dalay somon	43.383	103.45	[15]
MK461366	<i>P. versicolor</i>	<i>P. p. versicolor</i>	<b>ve1</b>	ZMMU R-12178	Mongolia	43.75	104	[15]
MK461466	<i>P. versicolor</i>	<i>P. p. versicolor</i>	<b>ve1</b>	ZMMU R-12834	Mongolia, Bayanhongor, S Changay, 25 - 30 km E from Zhinst-somon	45.55	100.267	[15]
KF691736	<i>P. versicolor</i>	<i>P. p. versicolor</i>	<b>ve2</b>	ZMMU R-12178	Mongolia, 35 km NW Dalanzadgad	43.75	104	[12]
MK461434	<i>P. vindumi</i>	<i>P. vindumi</i>	<b>vi1</b>	ZMMU R-13026-2	Iran, Khorasan, Gonobad [type locality of <i>vindumi</i> ]	34.76	58.78	<i>this study</i>

KF691706	<i>P. vindumi</i>	<i>P. vindumi</i>	<b>vi2</b>	ZMMU R-13026-1	Iran, Khorasan, Gonobad	34.76	58.78	[12]
MK461435	<i>P. vindumi</i>	<i>P. vindumi</i>	<b>vi2</b>	ZMMU R-13026-3	Iran, Khorasan, Gonobad	34.76	58.78	<i>this study</i>
MK461396	<i>P. vindumi</i>	<i>P. vindumi</i>	<b>vi2</b>	ZMMU R-13026	Iran, Khorasan, 60 km N Gonabad	34.6	58.733	<i>this study</i>
MK461420	<i>P. vindumi</i>	<i>P. vindumi</i>	<b>vi2</b>	ZMMU R-12204-1	Iran, Khorasan, 60 km N Gonobad	34.6	58.733	<i>this study</i>
MK461397	<i>P. vindumi</i>	<i>P. vindumi</i>	<b>vi2</b>	ZMMU R-12204	Iran, Khorasan, 60 km N Gonabad	34.6	58.733	<i>this study</i>
MK461419	<i>P. vindumi</i>	<i>P. vindumi</i>	<b>vi2</b>	ZMMU R-12203-1	Iran, Khorasan, 60 km N Gonobad	34.6	58.733	<i>this study</i>
KF691718	<i>P. erythrurus</i>	<i>P. vlangalii vlangalii</i>	<b>vl1</b>	ZMMU R-12303	China, Qinghai, environs of Duokake, KunLun Shan (KunLun mt)	36.611	92.328	[12]
MK461351	<i>P. erythrurus</i>	<i>P. vlangalii vlangalii</i>	<b>vl1</b>	ZMMU R-12305-1	China, Qinghai, environs of Golmud, Burhan Budai Shan	36.43	94.19	<i>this study</i>
MK461352	<i>P. erythrurus</i>	<i>P. vlangalii vlangalii</i>	<b>vl1</b>	ZMMU R-12304	China, Xinjiang Uygur Zizhiqu, Aer Jin Shan N. P., Arijin mt	36.985	90.834	<i>this study</i>
MK461353	<i>P. erythrurus</i>	<i>P. vlangalii vlangalii</i>	<b>vl1</b>	ZMMU R-12307	China, 40 km NW from Tangelashan, Kekexili mt, near Kekexili	34.833	92.6	<i>this study</i>
MK461354	<i>P. erythrurus</i>	<i>P. vlangalii vlangalii</i>	<b>vl1</b>	ZMMU R-12306	China, Qinghai, KunLun Shan Kou, environs of Tibetan plato	35.072	93.519	<i>this study</i>
MF039058	<i>P. vlangalii</i>	<i>P. vlangalii vlangalii</i>	<b>vl2</b>	-	China, Geermu, Western Qinghai-Xizang (Tibetan) Plateau	-	-	[26]
MK461401	<i>P. vlangalii</i>	<i>P. vlangalii pylzowi</i>	<b>vl3</b>	ZMMU R-8899_1	China, Xinjiang, Chemo (= Cherchen, Tzemo), Altyntag mts., Chinbulak, 60 km S Tura, Cherchen bank	37.9	87.7	<i>this study</i>
HM362988	<i>P. vlangalii</i>	<i>P. vlangalii pylzowi</i>	<b>vl4</b>	CIB XM3540	Ruoergai, Sichuan, China	33.87	102.95	[149]
KF691719	<i>P. vlangalii</i>	<i>P. vlangalii pylzowi</i>	<b>vl4</b>	KIZ 020062	China, Qinghai, Gonghe [vicinity of the type locality of <i>vlangalii</i> ]	35.627	99.546	[12]
MK492321	<i>P. vlangalii</i>	<i>P. vlangalii pylzowi</i>	<b>vl4</b>	ZMMU R-8897_1	China, Xinjiang, Chemo (= Cherchen, Tzemo), Altyntag mts., Minbulak, left Cherchen bank, Achik-kul Depression	37.9	87.7	<i>this study</i>
MK492320	<i>P. vlangalii</i>	<i>P. vlangalii pylzowi</i>	<b>vl4</b>	ZMMU R-8898_1	China, Xinjiang, Chemo (= Cherchen, Tzemo), Middle Kunlun, Achik-kul Depression, Minbulak	37.9	87.7	<i>this study</i>

MK492322	<i>P. vlangalii</i>	<i>P. vlangalii pylzowi</i>	<b>vl4</b>	ZMMU R-14325	China, Qinghai, Tasan Nur	35.264	98.761	<i>this study</i>
MF039059	<i>P. vlangalii pylzowi</i>	<i>P. vlangalii pylzowi</i>	<b>vl5</b>	-	China: Maqu Xian, Gannan Tibetan Autonomous Prefecture, Gansu Province	34.96	102.90	[86]
MF039060	<i>P. vlangalii pylzowi</i>	<i>P. vlangalii pylzowi</i>	<b>vl6</b>	-	China: Maduo County, Tibetan Autonomous Prefecture of Golog, Qinghai Province	34.44	98.06	[86]
MF039063	<i>P. theobaldi theobaldi</i>	<i>Phrynocephalus</i> sp. 1	<b>sp1</b>	-	China, Tibet, Ngari Prefecture	33.12	80.25	[86]
KF691720	<i>Phrynocephalus</i> sp. 2	<i>Phrynocephalus</i> sp. 2	<b>sp2.1</b>	ZMMU R-12301	China, Tibet, Xizang, 20 km from Pelguzo Lake	28.665	85.879	[12]
MF039062	<i>P. theobaldi orientalis</i>	<i>Phrynocephalus</i> sp. 2	<b>sp2.2</b>	-	China, Tibet, Brahmaputra River valley	30.03	83.49	[86]
MK461484	<i>P. interscapularis</i>	<i>Phrynocephalus</i> sp. 3	<b>sp34.1</b>	2204int4	Uzbekistan, 2 km N Chukurkuduk	40.83	66.63	<i>this study</i>
MK461485	<i>P. interscapularis</i>	<i>Phrynocephalus</i> sp. 3	<b>sp34.1</b>	2204int5	Uzbekistan, 2 km N Chukurkuduk	40.83	66.63	<i>this study</i>
MK461374	<i>P. interscapularis</i>	<i>Phrynocephalus</i> sp. 3	<b>sp3.2</b>	ZMMU R-12146-2	Uzbekistan, Navoi, 20 km N from Kataich, Lake Aidarkul	40.66	66.61	<i>this study</i>
MK461375	<i>P. interscapularis</i>	<i>Phrynocephalus</i> sp. 3	<b>sp3.2</b>	ZMMU R-12146-1	Uzbekistan, Navoi, 20 km N from Kataich, Lake Aidarkul	40.66	66.61	<i>this study</i>
MW940436	<i>P. maculatus</i>	<i>Phrynocephalus</i> sp. 4	<b>sp4</b>	ERP 8793	Iran, Yazd province, Abarkooh	31.227	53.43	[87]
MW940437	<i>P. maculatus</i>	<i>Phrynocephalus</i> sp. 4	<b>sp4</b>	ERP 8795	Iran, Yazd province, Abarkooh	31.227	53.43	[87]
MW940438	<i>P. maculatus</i>	<i>Phrynocephalus</i> sp. 4	<b>sp4</b>	ERP 8796	Iran, Yazd province, Abarkooh	31.227	53.43	[87]
MW940439	<i>P. maculatus</i>	<i>Phrynocephalus</i> sp. 4	<b>sp4</b>	ERP 8800	Iran, Kerman province, Sirjan	29.446	55.48	[87]
JF769378	<i>P. cameranoi</i>	<i>Phrynocephalus</i> sp. 5	<b>sp5</b>	ZMMU R-12812	Kazakhstan, Taldy-Kurgan, Ili Depression, Ili Riv., 10 km E from Aktau	44.083	79.467	[19]
JF769380	<i>P. cameranoi</i>	<i>Phrynocephalus</i> sp. 5	<b>sp5</b>	ZMMU R-12665	Kazakhstan, Taldy-Kurgan, Ili Depression, sands on the right side of Zharkent - Khorgos Rd.	44.217	80.25	[19]
JF769382	<i>P. cameranoi</i>	<i>Phrynocephalus</i> sp. 6	<b>sp6</b>	ZMMU R-12662	Kazakhstan, SKazakhstan, Chimkent, N foothills of Karatau, near Suzak	44.316	68.6	[19]

JF769389	<i>P. cameranoi</i>	<i>Phrynocephalus</i> sp. 6	<b>sp6</b>	ZMMU R-12165	Kazakhstan, Taraz, NE Karatau, Lake Kyzylkol	43.79	69.54	[19]
OP970518	<i>P. saidalievi</i>	<i>Phrynocephalus</i> sp. 7	<b>sp7</b>	RAN-4429	Kirgizstan, Batkent prov., Kadamjskiy dist., near Sovetskiy vill.	40.25	71.34	<i>this study</i>
OP970519	<i>P. saidalievi</i>	<i>Phrynocephalus</i> sp. 7	<b>sp7</b>	RAN-4430	Kirgizstan, Batkent prov., Kadamjskiy dist., near Sovetskiy vill.	40.25	71.34	<i>this study</i>
OP970520	<i>P. saidalievi</i>	<i>Phrynocephalus</i> sp. 7	<b>sp7</b>	RAN-4431	Kirgizstan, Batkent prov., Kadamjskiy dist., near Sovetskiy vill.	40.25	71.34	<i>this study</i>
OP970521	<i>P. saidalievi</i>	<i>Phrynocephalus</i> sp. 7	<b>sp7</b>	RAN-4432	Kirgizstan, Batkent prov., Kadamjskiy dist., near Sovetskiy vill.	40.25	71.34	<i>this study</i>
OP970522	<i>P. saidalievi</i>	<i>Phrynocephalus</i> sp. 7	<b>sp7</b>	RAN-4433	Kirgizstan, Batkent prov., Kadamjskiy dist., near Sovetskiy vill.	40.25	71.34	<i>this study</i>
JF769421	<i>P. persicus</i>	<i>Phrynocephalus</i> sp. 8	<b>sp8</b>	ZMMU R-12466	Azerbaijan, Naxcivan, NW from Nachichevan city	39.283	45.283	[19]
JF756689	<i>P. persicus</i>	<i>Phrynocephalus</i> sp. 9	<b>sp9</b>	FH_10_4, no voucher	Iran, Ardebil env.	38.393	48.368	[19]
JF769416	<i>P. persicus</i>	<i>Phrynocephalus</i> sp. 10	<b>sp10</b>	ZMMU R-12786	Azerbaijan, Apsheron, near Sangachaly	40.15	49.467	[19]
MK461365	<i>P. ocellatus</i>	<i>Phrynocephalus</i> sp. 11	<b>sp11.1</b>	ZMMU R-12136-2	Uzbekistan, Qoraqalpog'iston, Mingdulak	42.23	62.86	<i>this study</i>
MK461364	<i>P. ocellatus</i>	<i>Phrynocephalus</i> sp. 11	<b>sp11.1</b>	ZMMU R-12136-1	Uzbekistan, Qoraqalpog'iston, Mingdulak	42.23	62.86	<i>this study</i>
MK461477	<i>P. ocellatus</i>	<i>Phrynocephalus</i> sp. 11	<b>sp11.2</b>	3004oc1	Uzbekistan, Kyzylkum sands, 17 km NW Uchkuduk	42.28	63.44	<i>this study</i>
MK461478	<i>P. ocellatus</i>	<i>Phrynocephalus</i> sp. 11	<b>sp11.2</b>	3004oc3	Uzbekistan, Kyzylkum sands, 17 km NW Uchkuduk	42.28	63.44	<i>this study</i>
KF691709	<i>P. ocellatus</i>	<i>Phrynocephalus</i> sp. 11	<b>sp11.3</b>	ZMMU R-12272	Uzbekistan, Navoi, west bank of Mingbulak Depression, 25 km SW from Mingdulak, east border Dzhar Hillock	42.118	62.744	[2]
KF691738	<i>P. hispidus</i>	<i>Phrynocephalus</i> sp. 12	<b>sp12</b>	KIZ 014303	China, Gansu, Jiuguan City	39.68	98.45	[2]
KF691726	<i>P. melanurus</i>	<i>Phrynocephalus</i> sp. 13	<b>sp13</b>	ZMMU R-12327	Kazakhstan, East Kazakhstan, Alakol Depression, plain between Alakol and Zhalanashkol Lakes, 55 km S from Karabulak	45.643	82.176	[12]

MF567976	<i>P. melanurus</i>	<i>Phrynocephalus</i> sp. 13	<b>sp13</b>	ZMMU R-12328	Kazakhstan, Junggar Gates, 10 km NW from Druzhba	45.314	82.423	[21]
MK461428	<i>P. melanurus</i>	<i>Phrynocephalus</i> sp. 13	<b>sp13</b>	ZMMU R-12327-2	Kazakhstan, Alakol valley, 55 km S Karabulak	45.643	82.176	[13]
MK461384	<i>P. melanurus</i>	<i>Phrynocephalus</i> sp. 13	<b>sp13</b>	ZMMU R-12177	Kazakhstan, border of Alma-Aty and E Kazakhstan provinces, Lake Zhalanashkol	45.4	82.09	[13]
MK461456	<i>P. melanurus</i>	<i>Phrynocephalus</i> sp. 13	<b>sp13</b>	ZMMU R-12784	Kazakhstan, Taldy-Kurgan, Junggar Gate, near Junggar railway station	45.233	82.483	[13]
MK461410	<i>P. melanurus</i>	<i>Phrynocephalus</i> sp. 13	<b>sp13</b>	ZMMU R-12327-1	Kazakhstan, Alakol Depression, plain between Alakol and Zhalanashkol Lakes, 55 km S from Karabulak	45.643	82.176	[13]
KF691700	<i>Stellagama stellio</i>	<i>Stellagama stellio</i>	-	ZMMU R-11324	Israel, Rekhovot	31.88	34.8	[12]
KF691701	<i>Paralau dakia caucasia</i>	<i>Paralau dakia caucasia</i>	-	ZMMU R-12465	Azerbaijan, Lerik, Zuvand, Kelvyaz	38.61	48.35	[12]
KF691702	<i>Paralau dakia lehmanni</i>	<i>Paralau dakia lehmanni</i>	-	ZMMU R-12248	Uzbekistan, Navoi, Nuratau, Kataich	40.61	66.58	[12]
KF691703	<i>Paralau dakia microlepis</i>	<i>Paralau dakia microlepis</i>	-	ZMMU R-12207	Iran, Khorasan, Birjant, Sedeh	39.85	59.894	[12]