Table S1. Sampling information of mtDNA datasets. S – site number; N – sample size; X – Longitude, Y – Latitude; Hap – haplotype attribution (haplotypes are shown for concatenated data of mtDNA); GenBank Accession numbers (Acc. №) of sequences. Abbreviation: (KZ – Kazakhstan; KU- Kazakh Upland; CN- China; XJ – Xinjiang; vill. – village, W, E, N, S – west, east, north and south respectively; MHG – mitochondrial haplogroup).

S	Locality	N	Y	X	Hap	COI gene GenBank Acc. №	ND2 gene GenBank Acc. №	Taxon	Source
1	W KZ, Atyrau region, Inderbor	3	48.77	51.92	5	ON796860-62	ON809613-15	*P.* cf. *bedriagae*	This study
2	W KZ, Atyrau region, Kulsary	3	47.20	54.38	5	ON796857-59	ON809610-12	*P.* cf. *bedriagae*	This study
3	W KZ, Saura Lake, Mangyshlak Peninsula	1	44.22	50.82	5	ON796844	ON809597	*P.* cf. *bedriagae*	This study
4	W KZ, Temir River, upper stream	2	49.20	57.63	5	ON796831-32	ON809584-85	*P.* cf. *bedriagae*	This study
5	W KZ, Emba River, Kumzhargan Sands	2	48.67	57.94	5	ON796833-34	ON809586-87	*P.* cf. *bedriagae*	This study
6	Kostanay region, Toguzak River	2	53.10	62.02	12	ON796849-50	ON809602-03	*P.* cf. *bedriagae*	This study
7	S KZ, Delta of Syrdarya River, Rayim vill.	1	46.05	61.69	8	ON796838	ON809591	Syrdarya	This study
8	S KZ, Syrdarya River	2	45.73	62.10	6; 7	ON796836-37	ON809589-90	Syrdarya	This study
9	S KZ, Kyzylorda	1	44.86	65.45	14	ON796863	ON809616	Syrdarya	This study
10	S KZ, Turkestan region, Turkestan, Karashik River	1	43.34	68.19	10	ON796846	ON809599	Syrdarya	This study
11	S KZ, Teke vill., lower tributary of Karashik River	2	43.24	68.12	16; 17	ON796876-77	ON809629-30	Syrdarya	This study
12	S KZ, Turkestan region, Keles River	1	41.49	69.25	11	ON796847	ON809600	Syrdarya	This study
13	KZ, Zhambyl Region, Talas District, Bilikol	3	42.98	70.68	19, 23	ON796909, ON796912-13	ON809662, ON809665-66	*P.* cf. *bedriagae*	This study
		8			15, 21, 22, 24	ON796908, ON796910-11, ON796914-18	ON809661, ON809663-64, ON809667-71	Syrdarya	This study
14	S KZ, Karatau, 32 km of Berkara valley	1	42.92	70.64	20	ON796907	ON809660	*P.* cf. *bedriagae*	This study

15	S KZ, Taraz	2	42.88	71.41	15	ON796864-65	ON809617-18	Syrdarya	This study
16	KZ, KU, Karaganda fishfarm, Solonichki vill.	1	50.06	73.26	2	ON796822	ON809575	Balkhash	This study
		1			3	ON796823	ON809576	*P.* cf. *bedriagae*	This study
17	KU, Irtysh-Karaganda Channel, Tuzdy oxbow	1	50.15	73.36	2	ON796824	ON809577	Balkhash	This study
		1			3	ON796825	ON809578	*P.* cf. *bedriagae*	This study
18	KZ, Karaganda region, Abay vill.	1	49.64	72.83	2	ON796839	ON809592	Balkhash	This study
19	KZ, KU, Karaganda, Bukpa River	1	49.74	73.09	1	ON796820	ON809573	*P.* cf. *bedriagae*	This study
20	KU, Karaganda, Fedorovskoye reservoir	1	49.75	73.07	2	ON796821	ON809574	Balkhash	This study
21	KZ, Pavlodar region, Pavlodar city vicinity	1	52.22	76.52	2	ON796830	ON809583	*P.* cf. *bedriagae*	This study
22	KZ, Pavlodar city, Usolka River	1	52.24	76.95	2	ON796866	ON809619	Balkhash	This study
		1			1	ON796867	ON809620	*P.* cf. *bedriagae*	This study
23	KZ, 50 km W of Semey, Maraldy vill.	1	50.54	79.60	4	ON796882	ON809635	*P.* cf. *bedriagae*	This study
		1			2	ON796883	ON809636	Balkhash	This study
24	E KZ, Semey, Semipalatinka River	1	50.40	80.27	1	ON796835	ON809588	*P.* cf. *bedriagae*	This study
25	E KZ region, Bulak vill. vicinity	2	50.19	80.54	2	ON796826-27	ON809579-80	Balkhash	This study
26	KZ, KU, pool of Shar River, S of Uzynshal vill.	2	49.93	80.72	2	ON796880-81	ON809633-34	Balkhash	This study
27	E KZ region, Mukur River	1	50.24	80.05	1	ON796878	ON809631	*P.* cf. *bedriagae*	This study
		1			2	ON796879	ON809632	Balkhash	This study
28	E KZ, Vavilonka River, Uba River Basin	1	50.60	81.87	9	ON796845	ON809598	*P.* cf. *bedriagae*	This study
29	E KZ region, Ust-Kamenogorsk, Irtysh River floodplain	1	50.00	82.50	4	ON796829	ON809582	*P.* cf. *bedriagae*	This study
30	E KZ region, Ust-Kamenogorsk	1	49.99	82.52	2	ON796828	ON809581	Balkhash	This study
31	N coast of Balkhash Lake, E of Bektau-Ata mount	2	47.42	74.87	1	ON796868-69	ON809621-22	*P.* cf. *bedriagae*	This study
32	S KZ, W coast of Balkhash Lake, Minaral	1	45.42	73.66	2	ON796840	ON809593	Balkhash	This study
33	S KZ, Korday district, Kenen vill.	7	43.39	75.06	18; 2	ON796884-90	ON809637-43	Balkhash	This study
34	KZ, Ily district, Mezhdurechensk vill., Kaskelen River	1	43.46	76.72	1	ON796853	ON809606	*P.* cf. *bedriagae*	This study

35	KZ, Almaty, Baum`s grove	2	43.30	76.94	3; 9	ON796854-55	ON809607-08	*P.* cf. *bedriagae*	This study
		1			2	ON796856	ON809609	Balkhash	This study
36	Kyrgyzstan, Issyk-kul Lake	1	42.64	77.20	2	ON796848	ON809601	Balkhash	This study
37	SE KZ, Kish-Tobe vill. vicinity, Karatal River	2	45.38	77.91	2	ON796842-43	ON809595-96	Balkhash	This study
38	KZ, Djungar Alatau, Akeshke reservoir	1	45.36	78.62	2	ON796870	ON809623	Balkhash	This study
39	SE KZ, Ily River Valley, Ainabulak vill. vicinity	1	44.62	77.99	2	ON796841	ON809594	Balkhash	This study
40	SE KZ, Chilik Pond farm LLP «Halyk-Balyk»	1	43.62	77.86	2	ON796851	ON809604	Balkhash	This study
		1			13	ON796852	ON809605	*P.* cf. *bedriagae*	This study
41	KZ, Alakol Basin, W of Usharal, pool of Tentek River	2	46.17	80.91	2	ON796873-74	ON809626-27	Balkhash	This study
42	KZ, Djungar Alatau, 15 km NW of Kabanbay vill.	1	45.97	80.68	2	ON796875	ON809628	Balkhash	This study
43	KZ, S coast of Alakol Lake, E 12 km of Koktuma vill.	2	45.81	81.75	2	ON796871-72	ON809624-25	Balkhash	This study
44	KZ, Altyn Emel National Park, Shygan	10	44.11	78.70	2	ON796891-93, ON796895, ON796898-900, ON796902-904	ON809644-46, ON809648, ON809651-53, ON809655-57	Balkhash	This study
		4			19	ON796894, ON796896-97, ON796901	ON809647, ON809649-50, ON809654	*P.* cf. *bedriagae*	This study
45	KZ, Ketmen Ridge area	11	43.62	80.04	2, 25	ON796919-29	ON809672-82	Balkhash	This study
46	KZ, Almaty region, Charyn National Park, A352 Charyn	1	43.51	79.24	2	ON796905	ON809658	Balkhash	This study
47	KZ, Almaty region, Charyn National Park	1	43.53	79.28	2	ON796906	ON809659	Balkhash	This study
48	CN, Kuerdening, Gongliu county, XJ	8	43.29	82.53	2	ON796937-44	ON809690-97	Balkhash	This study
49	CN, Xinyuang county, XJ	1	43.54	83.14	2	ON796935	ON809688	Balkhash	This study
50	CN, Xinyuang county, XJ	1	43.51	83.29	2	ON796936	ON809689	Balkhash	This study
51	CN, West of Buerjin county, XJ	2	47.77	86.82	2	ON796930-31	ON809683-84	Balkhash	This study

52	CN, South of Habahe county, XJ	1	48.02	86.47	2	ON796932	ON809685	Balkhash	This study
53	CN, Habahe county, XJ	2	48.06	86.47	2	ON796933-34	ON809686-87	Balkhash	This study
Literature data									
	Albania	1	41.32	19.42	26		AM749704	MHG1	[8;39]
	Bulgaria	1	42.60	27.60	27		AM749712	MHG1	[8;39]
	Cyprus, Northern Cyprus	1	35.18	33.56	28		GU812088	MHG3	[8;39]
	Cyprus, Nicosia-1	1	35.16	33.52	29		GU812078	MHG3	[8;39]
	Cyprus, Trodos-1	1	34.72	32.90	30		GU812079	MHG3	[8;39]
	Egypt, Cairo	1	29.96	31.22	31		GU812072	MHG2	[8;39]
	Macedonia, Lake Dojran	1	41.21	22.73	32		AM900652	MHG1	[8;39]
	France	1	43.77	46.53	33		AM900661	MHG1	[8;39]
	Georgia, Batumi	2	41.64	41.68	34-35		GU812112, GU812119	MHG6c	[8;39]
	Georgia, Sukhumi	2	42.99	40.98	36-37		GU812120-21	MHG6c	[8;39]
	Greece, Aliartos	3	38.36	23.08	38-40		AM749705, AM749709-10	MHG1	[8;39]
	Greece, Apolakkia/Rhodos	1	36.05	27.78	41		GU812095	MHG6b	[8;39]
	Greece, Chios	1	38.35	26.14	42		GU812102	MHG6c	[8;39]
	Greece, Ikaria	1	37.60	26.15	43		GU812090	MHG6a	[8;39]
	Greece, Kalanistra	1	38.06	21.84	44		AM900644	MHG1	[8;39]
	Greece, Kaminia	1	39.76	20.86	45		AM749699	MHG1	[8;39]
	Greece, Kavasilas	1	37.87	21.28	46		AM749702	MHG1	[8;39]
	Greece, Kythira	1	36.15	22.98	47		AM900646	MHG1	[8;39]
	Greece, Lesvos	3	39.21	26.17	48-50		GU812099 GU812100-01	MHG6c	[8;39]

	Greece, Mistros	2	38.52	23.83	51-52		AM900653, AM749706	MHG1	[8;39]
	Greece, Nea Manolada	1	38.03	21.36	53		AM749703	MHG1	[8;39]
	Greece, Olympos/Karpathos	1	35.74	27.16	54		GU812093	MHG6b	[8;39]
	Greece, Paradisos	1	39.29	23.21	55		AM749713	MHG1	[8;39]
	Greece, Samos	2	37.76	26.97	56-57		GU812105-06	MHG6c	[8;39]
	Greece, Skala	1	38.66	23.07	58		AM900662	MHG1	[8;39]
	Greece, Zakynthos	2	37.80	20.86	59-60		AM749698, AM900639	MHG1	[8;39]
	Iran, Pasargad	1	30.20	53.17	61		GU812132	MHG9	[8;39]
	Jordan, Wadi Mujib	1	31.44	35.81	62		GU812075	MHG2	[8;39]
	Jordan, Amman	1	32.03	35.80	63		GU812076	MHG2	[8;39]
	Kazakhstan, Almaty	1	43.28	76.87	64		GU812130	MHG8	[8;39]
	Kazakhstan, Atyrau	2	47.54	52.38	65-66		GU812115-16	MHG6c	[8;39]
	Kyrgyzstan, Bishkek	1	42.83	74.63	67		GU812131	MHG8	[8;39]
	Russia, Dakhovskaya	2	44.22	40.19	68-69		GU812117-18	MHG6c	[8;39]
	Syria, Abu Kamal	3	34.44	40.93	70-72		GU812122, GU812124, GU812126	MHG6d	[8;39]
	Syria, As Suwayda	1	32.68	36.55	73		GU812077	MHG2	[8;39]
	Syria, Ansari Mountains	1	34.81	36.11	74		GU812073	MHG2	[8;39]
	Turkey, Alanya	1	36.60	32.06	75		GU812091	MHG6a	[8;39]
	Turkey, Akçapınar	2	37.11	28.46	76-77		GU812107-08	MHG6c	[8;39]
	Turkey, Ankara	1	39.57	33.04	78		GU812111	MHG6c	[8;39]
	Turkey, Lake Beyşehir	1	37.68	31.71	79		GU812089	MHG6a	[8;39]

	Turkey, Ceyhan	2	37.08	35.83	80-81		GU812083, GU812081	MHG4	[8;39]
	Turkey, Çevik District, Antakya	2	36.71	28.78	82-83		GU812082, GU812080	MHG4	[8;39]
	Turkey, Edirne	2	39.61	27.01	84-85		GU812109-10	MHG6c	[8;39]
	Turkey, Fethiye	2	36.62	29.11	86-87		GU812098, GU812097	MHG6b	[8;39]
	Turkey, Foça	1	38.66	26.76	88		GU812113	MHG6c	[8;39]
		1			89		GU812104		[8;39]
		1			90		GU812114		[8;39]
		1			91		GU812103		[8;39]
	Turkey, Istanbul	1	41.13	28.75	92		GU812125	MHG6d	[8;39]
	Turkey, Hatay Kırıkhan	1	36.49	36.45	93		GU812085	MHG5	[8;39]
	Turkey, Kaş	1	36.27	29.68	94		GU812094	MHG6b	[8;39]
		1			95		GU812096		[8;39]
	Turkey, Kilis-Gaziantep Road	1	36.81	37.30	96		GU812084	MHG5	[8;39]
	Turkey, Pazarcik	1	37.28	37.12	97		GU812086	MHG5	[8;39]
	Turkey, Silifke	1	36.31	33.95	98		GU812092	MHG6a	[8;39]
	Turkey, Tuzluca	1	40.03	43.66	99		GU812123	MHG6d	[8;39]
	Turkmenistan, Ashkhabad	1	38.32	57.94	100		GU812127	MHG7	[8;39]
	Uzbekistan, Central Nuratau	1	40.08	66.41	101		GU812128-29	MHG7	[8;39]
	Outgroups								
	Greece, Skinias/Crete	1	35.06	25.30	103		GU812136	*P. cretensis*	[8;39]
	Greece, Igoumenitsa	1	39.50	20.26	104		GU812139	*P. epeiroticus*	[8;39]
	North Korea, unknown	1		-	105		GU812150	*P. nigromaculatus*	[8;39]

Table S2. Sampling information of nDNA dataset. S – site number; N – sample size; X – Longitude, Y – Latitude; Hap – haplotype attribution (haplotypes are shown for SAI of nDNA); GenBank Accession numbers (Acc. №) of sequences. Abbreviation: (KZ – Kazakhstan; KU- Kazakh Upland; CN- China; XJ – Xinjiang; vill. – village, W, E, N, S – west, east, north and south respectively). The localities numbering is in accordance with the mtDNA map.

S	Locality	N	Y	X	Hap	SAI gene GenBank Acc. №	Taxon	Source
1	W KZ, Atyrau region, Inderbor	2	48.77	51.92	1	ON856286-87	*P.* sp. *novum*	This study
2	W KZ, Atyrau region, Kulsary	2	47.20	54.38	1	ON856284	*P.* cf. *bedriagae*	This study
					7	ON856285	*P. ridibundus*	This study
3	W KZ, Saura Lake, Mangyshlak Peninsula	1	44.22	50.82	7	ON856275	*P. ridibundus*	This study
4	W KZ, Termir River, upper stream	2	49.20	57.63	1	ON856267	*P.* cf. *bedriagae*	This study
7	S KZ, Delta of Syrdarya River, Rayim vill.	1	46.05	61.69	6	ON856270	*P.* sp. *novum*	This study
8	S KZ, Syrdarya River	1	45.73	62.10	5	ON856269	*P.* sp. *novum*	This study
9	S KZ, Kyzylorda	1	44.86	65.45	10	ON856288	*P.* sp. *novum*	This study
10	S KZ, Turkestan region, Turkestan, Karashik River	1	43.34	68.19	6	ON856276	*P.* sp. *novum*	This study
11	S KZ, Teke vill., lower tributary of Karashik River	2	43.24	68.12	3	ON856294-95	*P.* sp. *novum*	This study
12	S KZ, Turkestan region, Keles River	1	41.49	69.25	2	ON856277	*P.* sp. *novum*	This study
13	KZ, Zhambyl Region, Talas District, Bilikol	1	42.98	70.68	13	ON856320	*P.* cf. *bedriagae*	This study
		3			11	ON856321, ON856323-24	*P.* sp. *novum*	This study
15	S KZ, Taraz	2	42.88	71.41	2	ON856289, ON856335	*P.* sp. *novum*	This study
16	KZ, KU, Karaganda fishfarm, Solonichki vill.	2	50.06	73.26	2	ON856262-63	*P.* sp. *novum*	This study
18	KZ, Karaganda region, Abay vill.	1	49.64	72.83	5	ON856271	*P.* sp. *novum*	This study

22	KZ, Pavlodar city, Usolka River	1	52.24	76.95	2	ON856290	*P.* cf. *bedriagae*	This study
24	E KZ, Semey, Semipalatinka River	1	50.40	80.27	4	ON856268	*P.* sp. *novum*	This study
25	E KZ region, Bulak vill. vicinity	2	50.19	80.54	2, 3	ON856264-65	*P.* sp. *novum*	This study
26	KZ, KU, pool of Shar River, S of Uzynshal vill.	2	49.93	80.72	3	ON856296-97	*P.* sp. *novum*	This study
29	E KZ region, Ust-Kamenogorsk, Irtysh River floodplain	1	50.00	82.50	1	ON856266	*P.* cf. *bedriagae*	This study
32	S KZ, W coast of Balkhash Lake, Minaral	1	45.42	73.66	2	ON856272	*P.* sp. *novum*	This study
33	S KZ, Korday district, Kenen vill.	2	43.39	75.06	11	ON856302-03	*P.* sp. *novum*	This study
34	KZ, Ily district, Mezhdurechensk vill., Kaskelen River	1	43.46	76.72	8	ON856281	*P.* cf. *bedriagae*	This study
35	KZ, Almaty, Baum`s grove	2	43.30	76.94	8	ON856282-83	*P.* cf. *bedriagae*	This study
36	Kyrgyzstan, Issyk-kul Lake	1	42.64	77.20	2	ON856278	*P.* sp. *novum*	This study
37	SE KZ, Kish-Tobe vill. vicinity, Karatal River	1	45.38	77.91	2	ON856274	*P.* sp. *novum*	This study
39	SE KZ, Ily River Valley, Ainabulak vill. vicinity	1	44.62	77.99	5	ON856273	*P.* sp. *novum*	This study
40	SE KZ, Chilik Pond farm LLP «Halyk-Balyk»	2	43.62	77.86	8	ON856279-80	*P.* cf. *bedriagae*	This study
41	KZ, Alakol Basin, W of Usharal, pool of Tentek River	1	46.17	80.91	2	ON856292	*P.* sp. *novum*	This study
42	KZ, Djungar Alatau, 15 km NW of Kabanbay vill.	1	45.97	80.68	2	ON856293	*P.* sp. *novum*	This study
43	KZ, S coast of Alakol Lake, E 12 km of Koktuma vill.	1	45.81	81.75	2	ON856291	*P.* sp. *novum*	This study
44	KZ, Altyn Emel National Park, Shygan	7	44.11	78.70	11	ON856305-07, 09, ON856312-13, ON856315-16	*P.* sp. *novum*	This study
		4				ON856308, 10-11, 14	*P.* cf. *bedriagae*	This study
45	KZ, Ketmen Ridge area	4	43.62	80.04	11, 13	ON856329, ON856331	*P.* sp. *novum*	This study
		1			12	ON856332	*P. ridibundus*	This study

46	KZ, Almaty region, Charyn National Park, A352 Charyn	1	43.51	79.24	11	ON856317	*P.* sp. *novum*	This study
47	KZ, Almaty region, Charyn National Park	1	43.53	79.28	11	ON856318	*P.* sp. *novum*	This study
	Literature data							
1a	W KZ, Atyrau	2	47.54	52.38	18	FN432363, FN432371	*P. ridibundus/ P.* cf. *bedriagae*	[9;39]
2a	W KZ, Atyrau region, Kulsary	2	46.96	54.00	18	allele ant7-3 (ACC)	*P.* cf. *bedriagae*	[39]
	Turkey, Tefenni	1	37.23	29.71	14	HE858238	*P.* cf. *bedriagae* s.s.	[9;39]
	Turkey, Yumurtalik	2	36.69	35.62	15	HE858225-26	Cilician	[9;39]
	Greece, Zakynthos	1	37.80	20.86	16	HE858215	*P. kurtmuelleri*	[9;39]
	Greece, Nea Manolada	1	38.03	21.36	16	FN432367	*P. kurtmuelleri*	[9;39]
	Poland, Poznan	2	52.38	16.66	17	FN432364-65	*P. ridibundus*	[39]
	Jordan, Mulaik Thoba	1	31.55	35.74	19	HE858218	*P. bedriagae*	[9]
	Jordan, Al shouna Al Shamaliya	1	32.61	35.63	19	HE858221	*P. bedriagae*	[9]
	Greece, Olympos/Karpathos	1	35.74	27.16	20	HE858227	*P. cerigensis*	[39]
	Greece, Archipolis/Rhodos	1	36.31	28.13	20	HE858228	*P. cerigensis*	[39]
	Cyprus, Panagia (forest station at stream Peristerona)	1	35.01	33.08	21	HE858243	*P. cypriensis*	[39]
	Cyprus, Troodos-2	1	34.91	32.90		HE858245	*P. cypriensis*	[39]
	Crete, Demati	1	35.03	25.28	22	FN432375	*P. cretensis*	[9]
	Crete, Skinias	1	35.06	25.30	23	FN432376	*P. cretensis*	[9]
	Greece, Igoumenitsa	1	39.50	21.26	24	FN432369	*P. epeiroticus*	[9;39]
	Greece, Lechena	1	37.91	21.26	24	FN432370	*P. epeiroticus*	[9;39]
	Outgroups							
	Spain, Ronda	1	36.75	-5.16	25	MF667651	*P. perezi*	[43]
	Algeria, El Golea	1	30.57	2.89	26	FN432379	*P. saharicus*	[9;39]

Table S3. Molecular diversity indices and neutrality tests.

Taxa	n	H	S	k	*h*±SD	π±SD	Tajima`s *D*	Fu`s *Fs*	*R*2	Rag	θi	τ
	COI											
Balkhash	71	2	1	0.20	0.203±0.058	0.00031±0.00009	-0.024 n.s.	0.460	0.1014	0.3944	0.000	0.203
Syrdarya	18	4	4	0.64	0.399±0.138	0.00099±0.00039	-1.347 n.s.	-1.116	0.0944	0.2024	0.362	0.279
P. cf. *bedriagae*	36	9	8	1.92	0.817±0.045	0.00297±0.00027	-0.008 n.s.	-1.928	0.1186	0.0566	0.000	1.924
	ND2											
Balkhash	71	2	1	0.02	0.028±0.027	0.00003±0.00003	-1.065 n.s.	-1.930	0.1178	0.8913	0.000	0.028
Syrdarya	18	9	12	1.94	0.797±0.090	0.00187±0.00039	-1.638 n.s.	-3.827	0.0798	0.0199	0.409	1.532
P. cf. *bedriagae*	36	6	10	4.04	0.741±0.043	0.00389±0.00024	2.058 s.s.	3.504	0.2000	0.1619	2.616	1.425
	Combined											
Balkhash	71	3	2	0.23	0.228±0.061	0.0014±0.00004	-0.727 n.s.	-0.948	0.0777	0.3490	0.000	0.231
Syrdarya	18	12	16	2.58	0.863±0.081	0.00153±0.00026	-1.699 n.s.	-6.882	0.0669	0.0377	0.000	2.582
P. cf. *bedriagae*	36	10	18	5.96	0.852±0.037	0.00354±0.00016	1.245 n.s.	1.705	0.1636	0.0510	3.378	2.587

n – number of individuals; H – number of haplotypes; S – total number of polymorphic positions; k – average number of nucleotide differences; *h* – haplotype diversity; π – nucleotide diversity; SD – standard deviation; Neutrality tests: Tajima`s *D* and Fu`s *Fs* statistics. Statistical significance $P < 0.05$.

R_2 statistics and Raggedness test; **θ**i – theta initial before the population growth or decline, **τ** - (tau) time since growth or decline measured in units of mutational time.

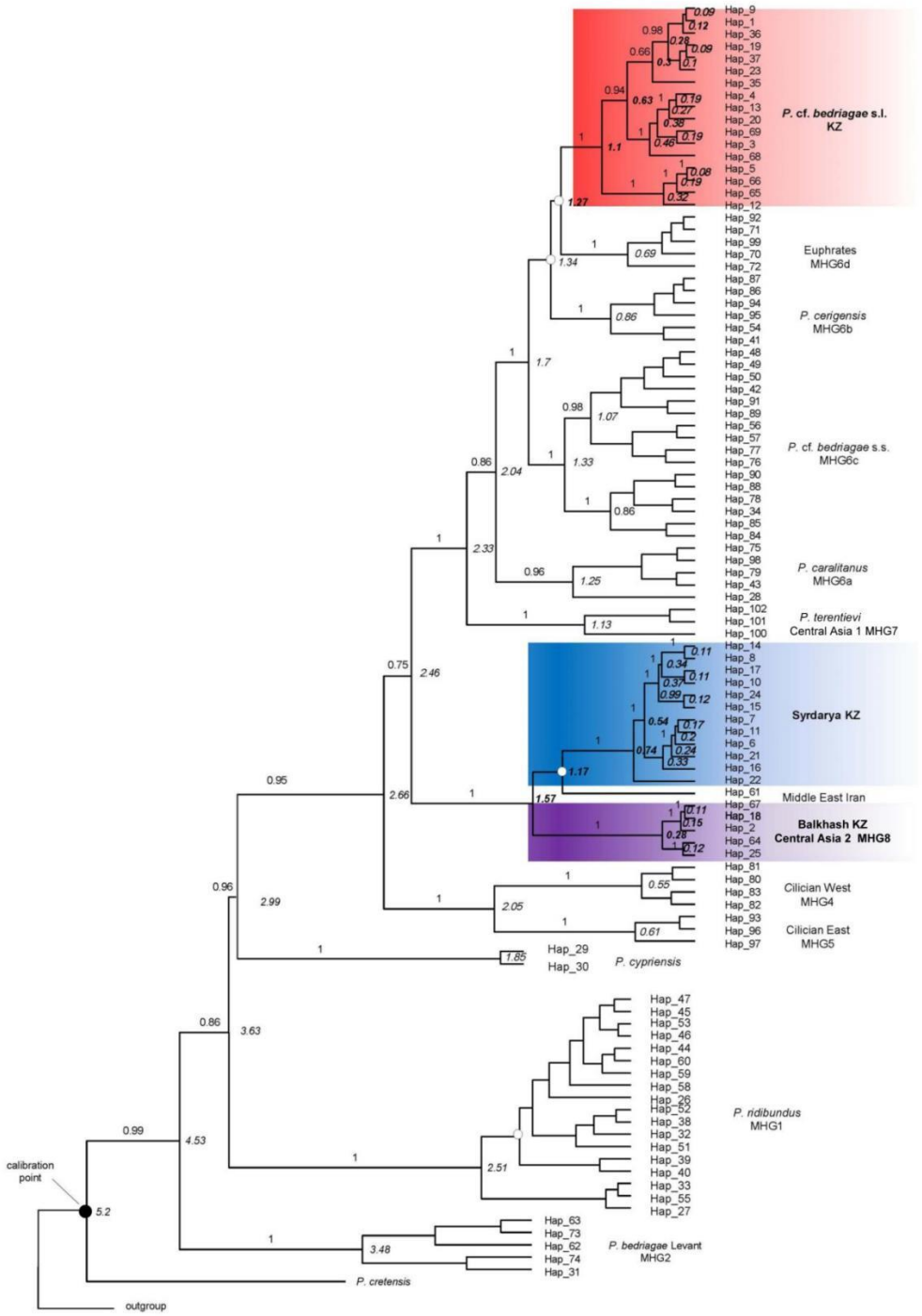

Figure S1. Divergence time of the matrilines of the marsh frogs *P. ridibundus* complex. The time shown next to node in italic (for the study lineages *P.* cf. *bedriagae*, Syrdarya and Balkhash of *P.* sp. novum in bold italic). Abbreviations: s.l. – sensu lato, s.s. – sensu stricto. Posterior probabilities less than 0.50 (PP < 0.50) denoted in white circle.