

TABLE S1. List of specimens used for morphological analysis, including collection locations and geographic coordinates.

Voucher	Location	Latitude	Longitude
ERP 970	Iran, Razavi Khorasan Province, South of Khaf	34°32'45.7"N	60°09'57.0"E
ERP 406	Iran, Razavi Khorasan Province, East of Bardaskan	35°15'06.8"N	58°00'49.6"E
ERP 408	Iran, Razavi Khorasan Province, East of Bardaskan	35°15'06.8"N	58°00'49.6"E
ERP 5465	Iran, Semnan Province, Shahrud to Birajemand, around Ahmadabad village	35°45'00.0"N	56°36'00.0"E
ERP 1936	Iran, Razavi Khorasan Province, Northwest of Bardaskan, Mohammad Zurab Village	35°27'31.7"N	57°26'55.1"E
ERP 11297	Iran, South Khorasan Province, 5 km on the road between Deyhook and Ferdows	33°18'20.30"N	57°31'24.20"E
ERP 11298	Iran, Razavi Khorasan Province, West of Bardaskan, West of Anabad city	35°14'38.30"N	57°46'38.10"E
ERP 1865	Iran, Razavi Khorasan Province, on the road of Niaz abad to mosa abad	34°10'52.6"N	60°18'39"E
ERP 15	Iran, Razavi Khorasan Province, 60 km on the road from Bardaskan to Tabas	34°49'58.00"N	57°08'06.60"E
ERP 11299	Iran, Razavi Khorasan Province, The desert Between Dochahi and Abdolmaleki villages, 90 km southwest Sabzevar	35°39'02.50"N	57°00'05.80"E
ERP 2005	Iran, Fars Province, 5 km West of Bahman, near Abadeh	31°10'39.0"N	52°27'07.1"E
ERP 4956	Iran, Yazd Province, Nadushan Rural District, Surk-e Sofla village	32°07'54.2"N	53°23'14.3"E
ERP 945	Iran, Razavi Khorasan Province, Northeast of Khaf	34°35'17.1"N	60°11'05.2"E
ERP 2008	Iran, Fars Province, 5 km West of Bahman, near Abadeh	31°10'39.0"N	52°27'07.1"E
ERP 68	Iran, South Khorasan Province, Central District of Sarbisheh County, Kanik village	32°28'09.0"N	59°48'02.3"E
ERP 108	Iran, Sistan and Baluchestan Province, 25 km On the road from Zabol to Dostmohammad	31°06'27.90"N	61°43'45.90"E
ERP 2010	Iran, Fars Province, 5 km West of Bahman, near Abadeh	31°10'39.0"N	52°27'07.1"E
ERP 4957	Iran, Yazd Province, Near Sourk	32°07'57.30"N	53°23'12.30"E
ERP 4955	Iran, Yazd Province, Near Gavkhoni, Varzaneh to Nodoshan	32°10'32.4"N	53°11'28.4"E
ERP 2067	Iran, Fars Province, 26 km N of Safashahr, (Type locality)	30°49'55.10"N	53°07'31.00"E
ERP 1396	Iran, Fars Province, between Abadeh to Shiraz, Kowli Kosh neck- 190 km N Shiraz, (Type locality)	30°48'32.80"N	53°09'00.40"E
ERP 2068	Iran, Fars Province, 26 km N of Safashahr, (Type locality)	30°49'55.10"N	53°07'31.00"E
ERP 2069	Iran, Fars Province, 26 km N of Safashahr, (Type locality)	30°49'55.10"N	53°07'31.00"E
ERP 2066	Iran, Fars Province, 26 km N of Safashahr, (Type locality)	30°49'55.10"N	53°07'31.00"E
ERP 6005	Iran, South Khorasan Province, Nehbandan, 40 km E of DehSalm, Near Chahdashi	31°24'30.30"N	59°37'42.60"E
ERP 2004	Iran, Fars Province, 5 km West of Bahman, near Abadeh	31°10'39.0"N	52°27'07.1"E

Voucher	Location	Latitude	Longitude
ERP 908	Iran, Razavi Khorasan Province, Atamalek District, Hokmabad city	36°39'04.1"N	57°36'26.6"E
ERP 1395	Iran, Fars Province, Kuli Kash neck, 190 Km North of Shiraz	30°48'32.8"N	53°09'00.4"E
ERP 405	Iran, Razavi Khorasan Province, Central District of Bardaskan County	35°14'03.4"N	57°58'48.6"E
ERP 9650	Iran, Isfahan Province, Kalicheh, Chenarud-e Jonubi Rural District, Kalicheh village	32°38'08.1"N	50°29'52.8"E
ERP 16	Iran, South Khorasan Province, Eshqabad County, Yakhhab village	34°49'58.0"N	57°08'06.6"E
ERP 61	Iran, South Khorasan Province, on the road to Nehbandan, 15 km east Sarbisheh	32°28'09.01"N	59°48'22.80"E
ERP 79	Iran, South Khorasan Province, on the road to sarbisheh, 55 km west Nehbandan	31°54'37.00"N	59°57'06.70"E
ERP 6108	Iran, Isfahan Province, 30 km North East of Morche Khoort, North of Behjatabad	33°11'12.1"N	51°45'59.9"E
ERP 9110	Iran, Qom Province, Qom city, North of Sarm village	34°30'09.6"N	50°57'30.7"E
ERP 9111	Iran, Qom Province, Qom city, North of Sarm village	34°30'09.6"N	50°57'30.7"E
ERP 8129	Iran, North Khorasan Province, Jajarm city	36°42'03.90"N	56°31'22.00"E
ERP 11300	Iran, Razavi Khorasan Province, 11 km south of Sabzevar Shirahmad protected area	36°07'37.70"N	57°57'45.70"E
ERP 11301	Iran, North Khorasan Province, 35 km to Jajarm around Jorbat village	37°00'33.00"N	56°38'58.90"E
ERP 11302	Iran, North Khorasan Province, 10 km on the road from Garme to Mayamay	36°58'09.60"N	56°11'34.00"E
ERP 11303	Iran, North Khorasan Province, 10 km on the road from Garme to Mayamay	36°58'09.60"N	56°11'34.00"E
ERP 11304	Iran, Semnan Province, Around Bakran village 35 km to Mayamay	36°35'31.80"N	55°53'09.10"E
ERP 342	Iran, Markazi Province, 30 km north Saveh on the road to Eshtehard, around cement factory number 2	35°08'40.90"N	50°22'55.10"E
ERP 9636	Iran, Hamadan Province, vicinity Robat Tork village	33°41'28.5"N	50°55'32.6"E
ERP 9649	Iran, Isfahan Province, Vicinity Kalicheh village	32°38'05.0"N	50°29'57.0"E
ERP 2073	Iran, Fars Province, 40 km North West of Ghatroyeh, Harat to Ghatroyeh	29°24'49.80"N	54°26'31.20"E
ERP 2072	Iran, Fars Province, 40 km North West of Ghatroyeh, Harat to Ghatroyeh	29°24'49.80"N	54°26'31.20"E
ERP 2074	Iran, Fars Province, 40 km North West of Ghatroyeh, Harat to Ghatroyeh	29°24'49.80"N	54°26'31.20"E
ERP 155	Iran, Kerman Province, 80 km southeast Kerman, 4 km south Lalehzar village vicinity of Lalehzar valley	29°29'27.90"N	56°48'09.62"E
ERP 162	Iran, Kerman Province, 20 km on the road from Sirjan to Shiraz	29°14'24.80"N	55°30'42.10"E
ERP 1657	Iran, Razavi Khorasan Province, North of Sabzevar, Neqab city	36°43'49.3"N	57°25'43.8"E
ERP 9641	Iran, Hamadan Province, vicinity Robat Tork village	33°41'28.5"N	50°55'32.6"E
ERP 9637	Iran, Hamadan Province, vicinity Robat Tork village	33°41'28.5"N	50°55'32.6"E
ERP 9640	Iran, Hamadan Province, vicinity Robat Tork village	33°41'28.5"N	50°55'32.6"E

Voucher	Location	Latitude	Longitude
ERP 9642	Iran, Hamadan Province, vicinity Robat Tork village	33°41'28.5"N	50°55'32.6"E
ERP 9638	Iran, Hamadan Province, vicinity Robat Tork village	33°41'28.5"N	50°55'32.6"E
ERP 11316	Iran, Markazi Province, Saveh	35°03'58.6"N	50°19'48.6"E
ERP 11312	Iran, Sistan and Baluchestan Province, 20 km East of Zabol city, Around Kek Kahzad Castle	30°56'33.5"N	61°15'49.2"E
ERP 107	Iran, Sistan and Baluchestan Province, 25 km On the road from Zabol to Dostmohammad	31°06'27.90"N	61°43'45.90"E
ERP 11337	Iran, Semnan Province, North of Miami city, Bakran village	36°31'02.6"N	55°44'51.9"E
ERP 703	Iran, Razavi Khorasan Province, Chenaran, Mohsen Abad, Khan Abad	35°55'57.2"N	59°40'36.5"E
ERP 688	Iran, Razavi Khorasan Province, North of Sabzevar, Neqab city	36°43'48.4"N	57°24'14.5"E
ERP 2006	Iran, Fars Province, 5 km West of Bahman, near Abadeh	31°10'39.0"N	52°27'07.1"E
ERP 9634	Iran, Isfahan Province, Habibabad District, Borkhar County, Maragh (Barkhavar) village	33°53'34.4"N	51°08'35.0"E
ERP 11315	Iran, Markazi Province, Saveh	35°03'58.6"N	50°19'48.6"E
ERP 11321	Iran, Qom Province, Qom, Kahak Rural District, Varnavaj village	34°25'13.9"N	50°47'45.9"E
ERP 11322	Iran, Qom Province, Jafarabad County, northeast of Damshahr town	34°43'09.9"N	50°45'28.2"E
ERP 11323	Iran, Qom Province, Qom County, Salafchegan District, Mohammad Beyk village	34°32'46.1"N	50°28'50.8"E
ERP 11327	Iran, Markazi Province, 10 KM Northeast of Arak, Ebrahimabad	34°13'13.2"N	50°06'36.7"E
ERP 11328	Iran, Markazi Province, 10 KM Northeast of Arak, Ebrahimabad	34°13'13.2"N	50°06'36.7"E
ERP 11329	Iran, Markazi Province, 10 KM Northeast of Arak, Ebrahimabad	34°13'13.2"N	50°06'36.7"E
ERP 11332	Iran, Isfahan Province, 45 km Northwest Isfahan	32°52'12.2"N	51°06'41.2"E
ERP 11333	Iran, Isfahan Province, 45 km Northwest Isfahan	32°52'12.2"N	51°06'41.2"E
ERP 11334	Iran, Isfahan Province, 45 km Northwest Isfahan	32°52'12.2"N	51°06'41.2"E
ERP 3011	Iran, Isfahan Province, 45 km Northwest Isfahan	32°52'12.2"N	51°06'41.2"E
ERP 11335	Iran, Isfahan Province, 45 km Northwest Isfahan	32°52'12.2"N	51°06'41.2"E
ERP 3010	Iran, Isfahan Province, 45 km Northwest Isfahan	32°52'12.2"N	51°06'41.2"E
ERP 11336	Iran, South Khorasan Province, 5 km on the road between Deyhook and Ferdows	33°18'20.30"N	57°31'24.20"E

TABLE S2. Descriptive statistics of morphological characters (mean $\pm$ standard deviation [SD] and range) for local populations of *Eremias persica* complex, *E. fahimii*, and *E. rafiqi* on the Iranian plateau.

	Character		Location											
			Razavi Khorasan (N=15)	South Khorasan (N=7)	North Khorasan (N=4)	Semnan (N=3)	Yazd (N=3)	Fars (N=14)	Qom (N=5)	Kerman (N=2)	Isfahan (N=10)	Markazi (N=6)	<i>Eremias fahimii</i> (N=7)	<i>Eremias rafiqi</i> (N=3)
Metric characters	SVL	Mean $\pm$ SD	74.85 $\pm$ 11.17	68.67 $\pm$ 7.73	71.87 $\pm$ 5.61	72.49 $\pm$ 14.17	75.93 $\pm$ 18.34	79.38 $\pm$ 8.79	67.29 $\pm$ 9.68	77.93 $\pm$ 4.82	66.21 $\pm$ 7.17	72.23 $\pm$ 10.86	75.84 $\pm$ 3.27	86.2 $\pm$ 5.39
		Range	55.04-93.06	52.2-74.58	64.12-77.11	56.16-81.65	54.81-87.83	58.03-89.8	52-75.54	74.52-81.33	55.24-80	61.45-90.62	71.59-81.11	81.64-92.14
	TL	Mean $\pm$ SD	120.83 $\pm$ 22.09	126.5 $\pm$ 18.72	104 $\pm$ 5.66	98.67 $\pm$ 22.37	120.33 $\pm$ 28.92	126.64 $\pm$ 19.92	117.67 $\pm$ 27.02	152 $\pm$ 0.05	93.57 $\pm$ 21.14	118 $\pm$ 21.79	128 $\pm$ 16.05	170 $\pm$ 5.66
		Range	98-167	96-150	100-108	79-123	98-153	78-152	87-138	152-152	65-114	103-143	112-150	166-174
	LHF	Mean $\pm$ SD	34.82 $\pm$ 5.28	31.5 $\pm$ 3.68	32.89 $\pm$ 3.48	32.9 $\pm$ 4.78	32.63 $\pm$ 7.9	35.03 $\pm$ 4.67	31.15 $\pm$ 5.19	34.64 $\pm$ 1.33	30.81 $\pm$ 5.24	33.72 $\pm$ 7.41	35.21 $\pm$ 2.1	38.65 $\pm$ 3.06
		Range	26.1-42.3	25.91-35.85	29.8-37.7	27.4-35.95	23.54-37.8	24.89-40.58	22.36-35.74	33.7-35.58	23.02-39.15	27.59-47.65	31.31-37	35.37-41.43
	HL	Mean $\pm$ SD	18.78 $\pm$ 2.56	17.44 $\pm$ 1.17	17.51 $\pm$ 1.09	18.33 $\pm$ 3.11	18.27 $\pm$ 3.92	19.67 $\pm$ 2.29	16.7 $\pm$ 1.8	20.21 $\pm$ 0.43	16.29 $\pm$ 1.43	18.16 $\pm$ 2.96	18.43 $\pm$ 0.95	20.97 $\pm$ 0.5
		Range	14.75-23.23	15.53-19.18	16.2-18.55	14.8-20.68	13.9-21.5	14.65-23.62	14.06-18.53	19.9-20.51	14.65-19.65	15.1-23.34	17.46-20.17	20.54-21.51
	HH	Mean $\pm$ SD	9.61 $\pm$ 1.38	8.9 $\pm$ 0.45	8.75 $\pm$ 0.89	9.59 $\pm$ 1.88	9.49 $\pm$ 2.69	10.08 $\pm$ 1.72	8.62 $\pm$ 1.36	10.73 $\pm$ 1.1	8.21 $\pm$ 0.84	9.5 $\pm$ 1.98	9.45 $\pm$ 0.74	10.42 $\pm$ 1.02
		Range	7.61-12.02	8.28-9.4	7.64-9.76	7.49-11.13	6.52-11.75	6.13-12.49	7-10.23	9.95-11.5	6.99-9.72	7.23-12.88	8.72-10.37	9.31-11.3
	HW	Mean $\pm$ SD	12.38 $\pm$ 1.77	11.68 $\pm$ 0.87	11.45 $\pm$ 1.16	12.06 $\pm$ 2.64	11.54 $\pm$ 3.06	13.25 $\pm$ 1.89	11.18 $\pm$ 1.21	13.7 $\pm$ 0.42	10.73 $\pm$ 1.11	11.89 $\pm$ 2.03	12.4 $\pm$ 1.04	14.04 $\pm$ 1.94
		Range	9.18-14.81	10.26-12.92	9.9-12.6	9.22-14.45	9.04-14.95	9.43-15.9	9.55-12.65	13.4-14	9.08-12.89	9.74-14.76	10.5-13.69	12.64-16.26
	LFL	Mean $\pm$ SD	26.93 $\pm$ 3.58	25.33 $\pm$ 1.5	25.23 $\pm$ 1.71	24 $\pm$ 2.01	26.92 $\pm$ 4.72	29.72 $\pm$ 3.44	23.63 $\pm$ 2.19	26.95 $\pm$ 3.05	23.44 $\pm$ 2.25	25.84 $\pm$ 4.46	26.31 $\pm$ 1.09	30.86 $\pm$ 1.73
		Range	19.19-35.33	24.08-28.36	23.45-26.82	21.68-25.33	21.51-30.2	23-36.12	20.55-25.66	24.79-29.1	19.5-28.55	20.58-33.46	24.7-27.61	29.56-32.82
	LHL	Mean $\pm$ SD	45.18 $\pm$ 7.01	45.29 $\pm$ 3.91	41.76 $\pm$ 2.99	43.77 $\pm$ 5.22	46.56 $\pm$ 10.38	48.7 $\pm$ 5.48	41.59 $\pm$ 4.04	49.31 $\pm$ 2.67	39.47 $\pm$ 2.78	40.99 $\pm$ 8.55	45.37 $\pm$ 3.77	50.48 $\pm$ 3.38
		Range	34.4-55.75	39.57-50.33	39.52-45.9	38.23-48.61	35-55.1	37.75-58.2	36.82-45.32	47.42-51.19	35.23-44.54	28.23-54.54	40.52-50.66	46.91-53.62
	LFO	Mean $\pm$ SD	11.5 $\pm$ 1.93	10.66 $\pm$ 1.57	9.57 $\pm$ 1.39	10.57 $\pm$ 2.59	11.09 $\pm$ 3.07	11.46 $\pm$ 2.05	9.93 $\pm$ 1.56	12.21 $\pm$ 0.71	9.23 $\pm$ 1.53	11.45 $\pm$ 1.91	11.4 $\pm$ 1.98	11.24 $\pm$ 1.05
		Range	7.31-15.48	8.55-12.53	8.1-11.46	7.6-12.35	7.77-13.82	7.83-14.2	7.89-11.67	11.7-12.71	6.87-11.67	9.44-14.56	9.22-13.55	10.04-12.01
	LT	Mean $\pm$ SD	13.64 $\pm$ 1.86	12.71 $\pm$ 0.9	12.82 $\pm$ 1.76	13.2 $\pm$ 2	14.44 $\pm$ 3.26	14.67 $\pm$ 2.16	12.04 $\pm$ 1.41	13.27 $\pm$ 0.12	11.07 $\pm$ 1	12.7 $\pm$ 2.89	14.13 $\pm$ 1.79	15.69 $\pm$ 1.74

Ratio Characters		Range	10.97-16.47	11.75-14.22	10.82-15.1	11.75-15.48	10.74-16.91	10.76-19.09	10.66-13.93	13.18-13.35	9.89-12.93	9.84-16.64	12.09-16.37	14.4-17.67
	ED	Mean±SD	4.16±0.81	4.46±0.22	4.19±1.13	4.48±0.9	4.56±1.22	4.78±0.83	4.34±0.76	4.56±0.15	4.13±0.21	4.05±0.25	5.01±0.55	4.94±0.42
		Range	2.84-5.52	4.23-4.89	2.72-5.16	3.53-5.31	3.18-5.5	2.92-6.06	3.04-4.98	4.45-4.66	3.86-4.54	3.79-4.32	4.05-5.48	4.45-5.19
	RED	Mean±SD	8.6±1.07	7.46±1.23	7.92±0.52	8.52±1.55	8.09±1.29	8.74±1.14	7.72±0.76	9.56±0.4	7.51±0.89	8.35±0.85	8.35±0.5	9.37±0.31
		Range	7.18-10.57	4.93-8.55	7.16-8.28	6.85-9.9	6.73-9.3	6.97-10.93	6.93-8.76	9.27-9.84	6.8-9.87	7.62-9.44	7.86-9.17	9.01-9.58
	ETD	Mean±SD	6.56±1.14	5.59±0.46	6.12±0.43	5.87±1.02	6.19±1.47	7.12±1.09	5.78±0.67	6.72±0.33	5.53±0.71	6.27±0.97	6.4±0.76	6.91±1.05
		Range	5.18-9.1	5.1-6.36	5.6-6.5	4.83-6.87	4.72-7.66	5.31-8.52	5.22-6.8	6.49-6.95	4.59-6.55	4.64-7.22	5.7-7.82	5.94-8.02
	NL	Mean±SD	10.74±2.76	9.93±1.02	9.89±1	10.2±3.72	11.68±2.09	11.02±1.38	10.26±2.36	11.79±1.46	8.5±0.83	10.5±1.92	10.74±0.59	12.02±0.77
		Range	7.41-17.4	8.4-11.47	8.95-11.06	5.9-12.4	9.27-12.95	8.87-13.83	7.85-13.36	10.75-12.82	7.25-9.85	8.77-13.4	9.75-11.47	11.33-12.85
	TD	Mean±SD	4.02±0.63	3.94±0.52	3.6±0.59	3.93±1.04	4.24±0.79	4.37±0.73	3.63±0.31	4.65±0.71	3.7±0.73	4.01±0.59	4.19±0.64	5.11±0.94
		Range	2.77-5.16	3.15-4.4	2.82-4.21	3.07-5.09	3.33-4.75	2.84-5.47	3.38-4.16	4.14-5.15	2.98-5.6	3.49-4.82	3.48-5.2	4.13-6
	IOD	Mean±SD	8.95±0.91	8.68±0.49	8.19±0.63	9.04±1.53	8.78±1.48	9.4±1.16	8.48±0.73	9.73±0.52	8.01±1.01	8.71±1.11	10.16±0.6	10.2±0.76
		Range	7.2-9.88	7.95-9.25	7.37-8.87	7.6-10.64	7.08-9.67	7.12-10.92	7.6-9.42	9.36-10.1	6.99-9.69	7.17-10.15	9.54-11.07	9.64-11.07
	LV	Mean±SD	6.39±1.48	5.46±1.09	4.57±0.29	6.03±0.35	6.61±1.46	7.51±1.72	5.78±1.12	6.09±1.07	5.5±0.94	5.96±1.29	6.16±1.01	6.83±0.88
		Range	3.76-9.35	3.65-6.9	4.16-4.85	5.63-6.24	4.93-7.51	4.99-11.94	4.17-7.03	5.33-6.84	3.83-6.9	4.2-7.17	4.5-7.54	5.86-7.58
	LBT	Mean±SD	9.56±2.02	8.84±0.85	8.75±1.2	9.31±2.57	9.11±2.66	10.25±1.95	8.27±1.38	10.08±0.49	8.27±1.07	8.96±1.53	10.25±0.76	11.49±0.7
		Range	6.22-12.93	7.5-10.33	7.3-10.16	6.7-11.84	6.09-11.09	6.81-15.55	6.32-9.92	9.73-10.42	6.75-9.8	7.21-10.85	9.14-11	11.08-12.3
	LWB	Mean±SD	17.62±2.38	16.82±0.95	15.63±1.54	17.52±3.12	20.55±5.41	17.75±3.14	16.43±3.56	17.07±2.04	16.88±2.81	16.96±3.07	19.44±2.13	17.85±0.85
		Range	13.65-20.63	15.11-17.94	14.19-17.46	14.82-20.93	14.73-25.43	12-25.14	10.69-20.3	15.62-18.51	14-22.34	13.47-22.24	16.76-21.67	17.01-18.71
	TL/SVL	Mean±SD	1.63±0.24	1.89±0.38	1.37±0.11	1.36±0.17	1.61±0.27	1.63±0.17	1.64±0.25	1.87±	1.45±0.35	1.63±0.11	1.69±0.16	1.96±0.1
		Range	1.12-1.89	1.32-2.49	1.3-1.45	1.18-1.51	1.29-1.79	1.34-1.89	1.36-1.85	1.87-1.87	0.94-1.95	1.55-1.76	1.51-1.87	1.89-2.03
	HL/HW	Mean±SD	1.52±0.08	1.49±0.02	1.53±0.07	1.53±0.09	1.6±0.2	1.49±0.08	1.49±0.08	1.48±0.01	1.52±0.05	1.53±0.07	1.49±0.09	1.51±0.16
		Range	1.39-1.72	1.46-1.53	1.47-1.64	1.43-1.61	1.44-1.83	1.34-1.62	1.43-1.62	1.47-1.49	1.46-1.62	1.39-1.58	1.43-1.66	1.32-1.63
	HW/HH	Mean±SD	1.29±0.11	1.31±0.06	1.31±0.02	1.25±0.04	1.23±0.18	1.32±0.1	1.31±0.11	1.28±0.09	1.31±0.09	1.26±0.08	1.31±0.09	1.35±0.14
		Range	1.11-1.56	1.24-1.39	1.29-1.32	1.23-1.3	1.04-1.39	1.16-1.54	1.12-1.39	1.22-1.35	1.17-1.51	1.15-1.35	1.19-1.43	1.19-1.44
	LHL/LFL	Mean±SD	1.68±0.15	1.79±0.12	1.66±0.13	1.82±0.09	1.72±0.1	1.64±0.1	1.76±0.08	1.84±0.11	1.69±0.1	1.6±0.3	1.73±0.14	1.64±0.05
		Range	1.35-1.96	1.64-1.97	1.49-1.79	1.76-1.92	1.63-1.82	1.41-1.77	1.68-1.87	1.76-1.91	1.55-1.91	1.01-1.85	1.6-1.98	1.59-1.69
	RED/HL	Mean±SD	0.46±0.03	0.43±0.07	0.45±0.01	0.46±0.01	0.45±0.06	0.44±0.03	0.46±0.02	0.47±0.01	0.46±0.02	0.46±0.03	0.45±0.01	0.45±0.01
		Range	0.42-0.51	0.27-0.47	0.44-0.47	0.45-0.48	0.38-0.48	0.4-0.48	0.44-0.49	0.47-0.48	0.43-0.5	0.4-0.5	0.44-0.47	0.44-0.46

	LHF/LWB	Mean±SD	1.98±0.2	1.88±0.22	2.11±0.21	1.89±0.2	1.6±0.16	1.99±0.22	1.92±0.12	2.04±0.17	1.83±0.17	2.01±0.41	1.82±0.13	2.16±0.14
		Range	1.72-2.32	1.59-2.13	1.82-2.33	1.72-2.1	1.44-1.76	1.61-2.38	1.76-2.09	1.92-2.16	1.52-2.14	1.63-2.74	1.69-2.04	2.08-2.32
Meristic characters	MNSLS	Mean±SD	10.86±0.611	10.89±0.788	11.12±1.030	11.5±0.5	11.66±1.154	11.46±0.535	11.7±0.908	11.75±1.060	11.08±0.620	10.75±0.758	10.91±0.376	11.66±0.577
		Range	9.5-12	10-12	10-12	11-12	11-13	10.5-12.5	10.5-12.5	11-12.5	10.3-12	10-12	10.5-11.5	11-12
	MNILS	Mean±SD	7.266±0.495	7.285±0.487	7±0.408	7.666±0.577	7.5±0.5	7.321±0.749	7.4±0.223	8.25±1.060	7±0.333	7±0.547	6.916±0.491	7.5±0.5
		Range	7-8.5	7-8	6.5-7.5	7-8	7-8	6-8.5	7-7.5	7.5-9	6.5-7.5	6-7.5	6-7.5	7-8
	NCS	Mean±SD	10.66±1.397	10.85±1.214	10±1.154	10.33±1.154	10.66±2.886	11.14±1.833	10.4±1.140	12±0	10.4±1.074	10.5±1.378	9.666±1.032	10±1.732
		Range	9-13	9-12	9-11	9-11	9-14	8-15	9-12	12-12	9-12	9-13	9-11	9-12
	NGS	Mean±SD	29.33±3.221	30.71±1.704	30.5±1.732	31.66±0.577	31±1	30.78±2.423	31.2±2.489	30.5±4.949	30.1±2.643	31.83±1.722	31.33±2.065	29.66±0.577
		Range	22-34	29-33	29-33	31-32	30-32	27-34	28-35	27-34	26-34	30-35	29-34	29-30
	NLVS	Mean±SD	14.66±0.975	14.71±0.951	14.5±1	15.33±1.154	15±0	14.57±0.513	16.2±1.643	14.5±0.707	14.4±0.843	15.16±1.329	15±0.632	14.66±0.577
		Range	13-16	14-16	14-16	14-16	15-15	14-15	15-19	14-15	13-16	14-17	14-16	14-15
	NTVS	Mean±SD	29.2±1.656	29.14±1.573	29±0.816	29±0	29.66±2.081	30.07±1.141	30.8±1.788	30±1.414	29.9±1.449	31±1.549	31.16±0.983	28.66±0.577
		Range	27-32	26-31	28-30	29-29	28-32	28-32	28-33	29-31	28-32	29-33	30-32	28-29
	NDS	Mean±SD	62.06±3.692	64±4.320	62.5±3.415	65±3.464	65.33±2.886	64.35±2.871	68.2±5.069	65±7.071	63.2±4.638	64.66±4.501	68.16±4.215	71.33±8.144
		Range	54-68	57-70	59-67	61-67	62-67	59-68	62-76	60-70	54-69	60-72	62-73	62-77
	MNSDLT	Mean±SD	22.53±1.995	25.57±1.397	22.5±0.577	23.66±2.886	22.66±0.577	23.28±1.266	24±1.224	25±0	22.6±1.173	22.66±1.032	23±1.095	23±1
		Range	18-27	24-28	22-23	22-27	22-23	22-26	23-26	25-25	21-25	21-24	22-25	22-24
	MNFP	Mean±SD	20.13±1.445	21.21±2.017	20±1.354	21±1.5	19.33±1.040	20.67±1.501	20.7±1.440	22.25±3.889	20.05±1.012	21.41±1.158	21.75±1.129	19±0.5
		Range	18-22.5	19.5-24	19-22	19.5-22.5	18.5-20.5	18-24	19-22.5	19.5-25	19-21.5	19.5-23	20.5-23.5	18.5-19.5
	NFPR	Mean±SD	20.06±1.486	21.28±2.138	19.75±0.957	20.66±1.527	19.33±0.577	20.5±1.605	20.2±1.303	22±4.242	20±1.154	21.5±1.378	22±1.095	19.66±0.577
		Range	18-23	19-24	19-21	19-22	19-20	18-24	19-22	19-25	19-22	19-23	21-24	19-20

TABLE S3. Descriptive statistics of morphological characters (mean $\pm$ standard deviation [SD] and range) for the six phylogenetic clades within the *Eremias persica* complex and its two sister species, *E. fahimii* and *E. rafiqi*, on the Iranian Plateau.

	Character		Clades							
			Clade 1 (N=13)	Clade 2 (N=22)	Clade 3 (N=4)	Clade 4 (N=3)	Clade 5 (N=7)	Clade 6 (N=3)	<i>Eremias fahimii</i> (N=7)	<i>Eremias rafiqi</i> (N=3)
Metric characters	SVL	Mean $\pm$ SD	74.29 $\pm$ 10.75	78.26 $\pm$ 9.49	68.05 $\pm$ 10.57	68.84 $\pm$ 14.84	76.82 $\pm$ 7.86	78.97 $\pm$ 10.8	75.84 $\pm$ 3.27	86.2 $\pm$ 5.39
		Range	55.04-93.06	54.81-89.8	52.2-73.92	52-80	64.12-88.94	69.3-90.62	71.59-81.11	81.64-92.14
	TL	Mean $\pm$ SD	125.45 $\pm$ 25.83	126.5 $\pm$ 20.78	114.75 $\pm$ 23.77	138 $\pm$ 0.00	105 $\pm$ 11.22	108 $\pm$ 39.61	128 $\pm$ 16.05	170 $\pm$ 5.66
		Range	79-167	78-153	93-140	138-138	94-123	65-143	112-150	166-174
	LHF	Mean $\pm$ SD	34.55 $\pm$ 5.26	34.56 $\pm$ 4.69	33.54 $\pm$ 5.48	31.69 $\pm$ 8.55	34.44 $\pm$ 3.24	39.79 $\pm$ 6.91	35.21 $\pm$ 2.1	38.65 $\pm$ 3.06
		Range	26.1-42.3	23.54-40.58	25.91-38.68	22.36-39.15	29.8-38.19	34.71-47.65	31.31-37	35.37-41.43
	HL	Mean $\pm$ SD	18.45 $\pm$ 2.56	19.4 $\pm$ 2.35	17.24 $\pm$ 1.53	17.41 $\pm$ 2.96	18.83 $\pm$ 1.92	19.36 $\pm$ 3.47	18.43 $\pm$ 0.95	20.97 $\pm$ 0.5
		Range	14.75-23.23	13.9-23.62	15.53-19.18	14.06-19.65	16.2-21.58	16.95-23.34	17.46-20.17	20.54-21.51
	HH	Mean $\pm$ SD	9.47 $\pm$ 1.4	9.89 $\pm$ 1.69	8.96 $\pm$ 0.49	8.98 $\pm$ 1.74	9.52 $\pm$ 1.18	10.25 $\pm$ 2.29	9.45 $\pm$ 0.74	10.42 $\pm$ 1.02
		Range	7.49-12.02	6.13-12.49	8.28-9.4	7-10.23	7.64-11.13	8.72-12.88	8.72-10.37	9.31-11.3
	HW	Mean $\pm$ SD	12.27 $\pm$ 1.57	12.87 $\pm$ 1.95	11.63 $\pm$ 1.1	11.29 $\pm$ 1.67	12.51 $\pm$ 1.71	12.83 $\pm$ 1.77	12.4 $\pm$ 1.04	14.04 $\pm$ 1.94
		Range	9.22-14.63	9.04-15.9	10.26-12.92	9.55-12.89	9.9-14.81	11.28-14.76	10.5-13.69	12.64-16.26
	LFL	Mean $\pm$ SD	26.41 $\pm$ 3.87	28.73 $\pm$ 3.55	24.67 $\pm$ 1.25	24.9 $\pm$ 4.05	25.74 $\pm$ 1.87	27.25 $\pm$ 5.73	26.31 $\pm$ 1.09	30.86 $\pm$ 1.73
		Range	19.19-35.33	21.51-36.12	23.2-25.89	20.55-28.55	23.45-28.96	22.18-33.46	24.7-27.61	29.56-32.82
	LHL	Mean $\pm$ SD	45.7 $\pm$ 6.85	48.06 $\pm$ 5.82	43.88 $\pm$ 4.74	42.23 $\pm$ 4.7	44.25 $\pm$ 4.08	44.32 $\pm$ 9.23	45.37 $\pm$ 3.77	50.48 $\pm$ 3.38
		Range	34.4-55.75	35-58.2	39-50.33	36.82-45.32	39.52-49.66	36.61-54.54	40.52-50.66	46.91-53.62
	LFO	Mean $\pm$ SD	11.12 $\pm$ 2.23	11.45 $\pm$ 1.99	9.95 $\pm$ 2.06	9.59 $\pm$ 1.49	10.77 $\pm$ 1.83	10.59 $\pm$ 3.5	11.4 $\pm$ 1.98	11.24 $\pm$ 1.05
		Range	7.31-15.48	7.77-14.2	7.93-12.3	7.89-10.67	8.1-13.02	7.92-14.56	9.22-13.55	10.04-12.01
	LT	Mean $\pm$ SD	13.56 $\pm$ 1.55	14.36 $\pm$ 2.1	12.13 $\pm$ 1.14	12.85 $\pm$ 1.12	13.44 $\pm$ 1.75	13.76 $\pm$ 2.5	14.13 $\pm$ 1.79	15.69 $\pm$ 1.74

		Range	11.35-16.3	10.74-19.09	10.8-13.56	11.7-13.93	10.82-15.48	12.09-16.64	12.09-16.37	14.4-17.67
	ED	Mean±SD	4.38±0.67	4.68±0.81	4.41±0.4	3.79±0.72	4.46±0.9	4.4±0.7	5.01±0.55	4.94±0.42
		Range	3.49-5.52	2.92-6.06	3.97-4.89	3.04-4.48	2.72-5.31	3.79-5.17	4.05-5.48	4.45-5.19
	RED	Mean±SD	8.14±1.42	8.65±1.12	7.86±0.66	8.52±1.48	8.57±0.95	8.21±1.1	8.35±0.5	9.37±0.31
		Range	4.93-10.57	6.73-10.93	7.25-8.55	6.93-9.87	7.16-9.9	7.33-9.44	7.86-9.17	9.01-9.58
	ETD	Mean±SD	6.18±1.22	6.8±1.09	5.8±0.47	6.26±0.69	6.47±0.8	6.49±0.76	6.4±0.76	6.91±1.05
		Range	4.83-9.1	4.72-8.52	5.27-6.3	5.49-6.8	5.6-8	5.7-7.22	5.7-7.82	5.94-8.02
	NL	Mean±SD	10.58±2.84	11.12±1.4	9.26±0.74	10.27±2.82	11.29±2.04	10.6±2.84	10.74±0.59	12.02±0.77
		Range	5.9-17.4	8.87-13.83	8.4-9.89	7.85-13.36	8.95-14.75	7.72-13.4	9.75-11.47	11.33-12.85
	TD	Mean±SD	4.08±0.56	4.31±0.69	3.78±0.66	4.38±1.13	4±0.8	4.1±0.62	4.19±0.64	5.11±0.94
		Range	3.07-5.16	2.84-5.47	3.15-4.4	3.38-5.6	2.82-5.09	3.71-4.82	3.48-5.2	4.13-6
	IOD	Mean±SD	9.02±0.83	9.25±1.11	8.73±0.62	8.71±1.05	8.86±1.07	9.6±0.52	10.16±0.6	10.2±0.76
		Range	7.2-9.88	7.08-10.92	7.95-9.37	7.6-9.69	7.37-10.64	9.11-10.15	9.54-11.07	9.64-11.07
	LV	Mean±SD	6.19±1.34	7.02±1.7	6.13±0.71	5.75±1.45	5.02±0.7	6.84±0.33	6.16±1.01	6.83±0.88
		Range	4.76-9.35	3.65-11.94	5.37-6.9	4.17-7.03	4.16-6.24	6.48-7.14	4.5-7.54	5.86-7.58
	LBT	Mean±SD	9.54±1.68	9.99±1.84	8.77±0.93	8.43±1.85	9.88±1.95	9.38±1.08	10.25±0.76	11.49±0.7
		Range	6.7-12.47	6.09-15.55	7.5-9.7	6.32-9.8	7.3-12.93	8.43-10.56	9.14-11	11.08-12.3
	LWB	Mean±SD	18.24±1.94	17.83±3.36	17.65±1.64	16.96±5.88	16.9±2.27	19.03±1.6	19.44±2.13	17.85±0.85
		Range	14.82-20.63	12-25.43	16.34-19.86	10.69-22.34	14.19-20.93	17.36-20.56	16.76-21.67	17.01-18.71
Ratio characters	TL/SVL	Mean±SD	1.71±0.21	1.65±0.18	1.74±0.58	1.85±	1.31±0.17	1.34±0.35	1.69±0.16	1.96±0.1
		Range	1.36-2.01	1.29-1.89	1.26-2.49	1.85-1.85	1.12-1.51	0.94-1.58	1.51-1.87	1.89-2.03
	HL/HW	Mean±SD	1.5±0.07	1.52±0.1	1.48±0.02	1.54±0.08	1.51±0.07	1.5±0.08	1.49±0.09	1.51±0.16
		Range	1.39-1.61	1.34-1.83	1.46-1.51	1.47-1.62	1.43-1.64	1.43-1.58	1.43-1.66	1.32-1.63
	HW/HH	Mean±SD	1.3±0.11	1.31±0.11	1.3±0.06	1.27±0.13	1.31±0.06	1.27±0.14	1.31±0.09	1.35±0.14
		Range	1.11-1.56	1.04-1.54	1.24-1.37	1.12-1.36	1.23-1.43	1.15-1.43	1.19-1.43	1.19-1.44
	LHL/LFL	Mean±SD	1.74±0.15	1.68±0.11	1.78±0.15	1.71±0.13	1.72±0.13	1.63±0.02	1.73±0.14	1.64±0.05
		Range	1.35-1.96	1.41-1.91	1.64-1.97	1.56-1.79	1.49-1.92	1.6-1.65	1.6-1.98	1.59-1.69
	RED/HL	Mean±SD	0.44±0.06	0.45±0.03	0.46±0.02	0.49±0.02	0.45±0.01	0.43±0.02	0.45±0.01	0.45±0.01
		Range	0.27-0.5	0.38-0.48	0.43-0.47	0.47-0.5	0.44-0.48	0.4-0.44	0.44-0.47	0.44-0.46

	LHF/LWB	Mean±SD	1.89±0.17	1.97±0.24	1.89±0.21	1.91±0.17	2.06±0.21	2.12±0.54	1.82±0.13	2.16±0.14
		Range	1.64-2.16	1.44-2.38	1.59-2.05	1.75-2.09	1.72-2.33	1.8-2.74	1.69-2.04	2.08-2.32
Meristic characters	MNSLS	Mean±SD	11±0.61	11.41±0.68	10.94±0.83	12.17±0.58	11.29±0.81	11±0	10.91±0.376	11.66±0.577
		Range	10-12	10.5-13	10-12	11.5-12.5	10-12	11	10.5-11.5	11-12
	MNILS	Mean±SD	7.27±0.53	7.5±0.72	7.13±0.63	7.33±0.29	7.14±0.48	6.67±0.76	6.916±0.491	7.5±0.5
		Range	7-8.5	6-9	6.5-8	7-7.5	6.5-8	6-7.5	6-7.5	7-8
	NCS	Mean±SD	10.92±1.5	11.18±1.76	10.75±0.96	10.67±0.58	9.86±1.07	11.67±1.15	9.666±1.032	10±1.732
		Range	9-13	8-15	10-12	10-11	9-11	11-13	9-11	9-12
	NGS	Mean±SD	30.62±2.26	30.41±2.56	29.25±2.87	30.33±1.15	31±1.41	30±4.58	31.33±2.065	29.66±0.577
		Range	27-34	25-34	26-33	29-31	29-33	26-35	29-34	29-30
	NLVS	Mean±SD	14.85±0.99	14.64±0.49	14.75±0.96	14.67±0.58	14.86±1.07	14.33±0.58	15±0.632	14.66±0.577
		Range	13-16	14-15	14-16	14-15	14-16	14-15	14-16	14-15
	NTVS	Mean±SD	29.38±1.66	29.91±1.19	29.5±2.65	29.67±1.53	29±0.58	31±1	31.16±0.983	28.66±0.577
		Range	27-32	28-32	26-32	28-31	28-30	30-32	30-32	28-29
	NDS	Mean±SD	62.23±3.72	64.73±4.31	62.75±5.74	66±1.73	63.71±3.3	61.33±7.02	68.16±4.215	71.33±8.144
		Range	54-67	57-77	56-70	64-67	59-67	54-68	62-73	62-77
	MNSDLT	Mean±SD	24.23±1.96	23.41±1.22	24.5±2.52	23.33±0.58	22.29±0.49	22±0	23±1.095	23±1
		Range	22-28	22-26	21-27	23-24	22-23	22-22	22-25	22-24
	MNFP	Mean±SD	20.54±1.38	20.39±1.78	22±2.45	20.83±1.76	20.29±1.19	20.33±1.26	21.75±1.129	19±0.5
		Range	18-22.5	18-25	19-24	19-22.5	19-22	19-21.5	20.5-23.5	18.5-19.5
	NFPR	Mean±SD	20.54±1.39	20.27±1.8	22±2.45	20.33±1.53	20.14±1.21	20.67±1.53	22±1.095	19.66±0.577
		Range	18-23	18-25	19-24	19-22	19-22	19-22	21-24	19-20

TABLE S4. Summary of loadings of Principal Components (PC) and Discriminant Functions (DF) from the correlation matrix of morphological characters of local populations of *Eremias persica* (sensu lato) on the Iranian Plateau.

[illegible]

TABLE S5. Summary of principal component (PC) and discriminant function (DF) loadings from correlation matrix of morphological characters based on six phylogenetic clades within the *Eremias persica* complex and its two sister species, *E. fahimii* and *E. rafiqi* on the Iranian plateau.

[illegible]

TABLE S6. Pairwise differentiation matrix of *Eremias persica complex* populations and *E. fahimii* from Hamedan Province, and *E. rafiqi* from Sistan and Baluchestan Province based on significant morphological characters ($P\text{-value}\leq 0.05$).

	Razavi Khorasan	South Khorasan	North Khorasan	Semnan	Yazd	Fars	Qom	Kerman	Isfahan	Markazi	<i>Eremias fahimii</i>	<i>Eremias rafiqi</i>
Razavi Khorasan					TL				MNSLS			NDS
South Khorasan								LHF	TD			
North Khorasan					TL	TL						
Semnan					TL							
Yazd	TL		TL	TL	TL	LHF/LWB- TL	TL-LHF	TL-LHF	TL	TL	LBT/LBT- LHF/LWB- TL	TL
Fars					LHF/LWB- TL		ETD					
Qom					TL-LHF	ETD						
Kerman		LHF			TL-LHF							
Isfahan	MNSLS	TD			TL							
Markazi					TL							
<i>Eremias fahimii</i>					LBT/LBT- LHF/LWB- TL							
<i>Eremias rafiqi</i>	NDS				TL							