Table S1. The list and geographic origin of D-loop sequences of *Mus macedonicus* used in this study.

GenBank #	Haplotype ID/Specimen ID	*N*	Locality	Map Code	Latitude/longitude	Reference
			TURKEY			
	Tr.13/OMÜ-98	1	Yıldırım, Edirne	1	41°42'N 26°29'E	This study
	Tr.16/OMÜ-123	1	Eskiköy, Uzunköprü, Edirne	2	41°20'N 26°37'E	This study
	Tr.63/OMÜ-492, Tr.64/OMÜ-493	2	Lazkoyu, Gökçeada, Çanakkale	3	40°06'N 25°46'E	This study
	Tr.30/OMÜ-69, Tr.31/OMÜ-70	2	Gelibolu, Çanakkale	4	40°24'N 26°40'E	This study
	Tr.7/OMÜ-73	1	Bostancı, Balıkesir	5	40°15'N 27°39'E	This study
	Tr.10/OMÜ-61, Tr.11/OMÜ-63	2	Bandırma, Balıkesir	6	40°21'N 27°58'E	This study
	Tr.32/OMÜ-71,OMÜ-72	2	Görükle, Bursa	7	40°13'N 28°50'E	This study
	Tr.41/OMÜ-623	1	Söğütlü, Sakarya	8	40°53'N 30°27'E	This study
	Tr.23/OMÜ-205, Tr.24/OMÜ-206	2	Limandere, Karasu, Sakarya	9	40°59'N 30°35'E	This study
	Tr.39/OMÜ-603, Tr.40/OMÜ-619	2	Kabalak, Düzce	10	40°58'N 31°12'E	This study
	Tr.38/OMÜ-602	1	Rüzgarlar, Bolu	11	40°44'N 31°50'E	This study
	Tr.43/OMÜ-633,OMÜ-634	2	Eskipazar, Karabük	12	40°56'N 32°31'E	This study
	Tr.44/OMÜ-649	1	Akçalı, Bartın	13	41°38'N 32°19'E	This study
	Tr.42/OMÜ-624	1	Kızılcahamam, Ankara	14	40°28'N 32°38'E	This study
	Tr.5/OMÜ-545, Tr.36/OMÜ-547	2	Kaleköy, Ilgaz, Çankırı	15	40°56'N 33°40'E	This study
	Tr.37/OMÜ-562,OMÜ-576	2	Karagöl, Aksaz, Sinop	16	42°01'N 34°55'E	This study
	Tr.5/OMÜ-175	1	Alaçam, Samsun	17	41°38'N 35°38'E	This study
AJ286325, AJ286326	*mac*Turkey.4(2 individuals), Tr.5	3	Kurupelit, Samsun	18	41°19'N 36°19'E	Gündüz et al. [18]

	Tr.22/OMÜ-180	1	Gelemen, Samsun	19	41°14'N 36°32'E	This study
	Tr.50/OMÜ-779	1	Fındıklı, Amasya	20	40°43'N 35°47'E	This study
	Tr.62/OMÜ-352	1	Büyükbağlar, Tokat	21	40°18'N 36°21'E	This study
	Tr.49/OMÜ-772	1	Tokat	22	40°25'N 36°31'E	This study
	Tr.65/OMÜ-525	1	Saraytepe, Fatsa, Ordu	23	40°59'N 37°27'E	This study
	Tr.51/OMÜ-839, Tr.52/OMÜ-840	2	Ordu	24	40°58'N 37°53'E	This study
	Tr.17/OMÜ-136, Tr.18/OMÜ-150, Tr.19/OMÜ-155	3	Muradiye, Manisa	25	38°42'N 27°19'E	This study
	Tr.69/OMÜ-704, Tr.70/OMÜ-705	2	Gümüldür, Menderes, İzmir	26	38°03'N 27°02'E	This study
	Tr.1/OMÜ-130, Tr.2/OMÜ-131, Tr.5/OMÜ-129, Tr.20/OMÜ-126, Tr.21/OMÜ-127	5	Korucuk, Denizli	27	37°53'N 29°09'E	This study
	Tr.45/OMÜ-671, Tr.46/OMÜ-691	2	Eğirdir, Isparta	28	37°51'N 30°50'E	This study
	Tr.5/OMÜ-1186, Tr.60/OMÜ-1187	2	Sivrihisar, Eskişehir	29	39°27'N 31°33'E	This study
	Tr.26/OMÜ-217	1	Ankara	30	40°18'N 32°39'E	This study
	Tr.3/OMÜ-216	1	Yapalıköy, Cihanbeyli, Konya	31	38°32'N 32°59'E	This study
	Tr.14/OMÜ-103	1	Central, Ürgüp, Nevşehir	32	38°37'N 34°54'E	This study
	Tr.15/OMÜ-195	1	Aksalur, Ürgüp, Nevşehir	33	38°40'N 34°58'E	This study
AJ286327	Tr.6	1	Erciyes Üniversitesi Kampüsü, Kayseri	34	38°43'N 35°29'E	Gündüz et al. [18]
	Tr.68/OMÜ-648	1	Boyunpınar, Artova, Tokat	35	40°09'N 36°24'E	This study
	Tr.6/OMÜ-817,OMÜ-818	2	Soğukçermik sapağı, Sivas	36	39°48'N 37°07'E	This study

	Tr.53/OMÜ-1145,OMÜ-1146	2	Erzincan	37	39°41'N 39°36'E	This study
	Tr.9/OMÜ-22	1	Sivrice, Elazığ	38	38°26'N 39°18'E	This study
	Tr.27/OMÜ-37¸ Tr.28/OMÜ-38	2	Karaköy, Datça, Muğla	39	36°45'N 27°36'E	This study
	Tr.47/OMÜ-694, Tr.48/OMÜ-695	2	Çakırköy, Acıpayam, Denizli	40	37°26'N 29°21'E	This study
	Tr.54/OMÜ-1148, Tr.55/OMÜ-1149, Tr.71/OMÜ-1147	3	Çolaklı, Manavgat, Antalya	41	36°50'N 31°18'E	This study
	Tr.61/OMÜ-182,OMÜ-183	2	Başkaören, Seydişehir, Konya	42	37°23'N 32°04'E	This study
	Tr.56/OMÜ-1152,OMÜ-1163,OMÜ-1164	3	Çavuş, Ermenek, Karaman	43	36°33'N 32°56'E	This study
	Tr.34/OMÜ-516, Tr.35/OMÜ-519	2	Ortaköy, Mut, Mersin	44	36°40'N 33°34'E	This study
	Tr.66/OMÜ-647	1	Silifke, Mersin	45	36°22'N 33°57'E	This study
	Tr.12/OMÜ-91	1	Erdemli, Mersin	46	36°36'N 34°18'E	This study
	Tr.8/OMÜ-81	1	Gözne, Mersin	47	36°59'N 34°34'E	This study
	Tr.29/OMÜ-505,OMÜ-515, Tr.33/OMÜ-511	3	Central, Ereğli, Konya	48	37°31'N 34°02'E	This study
	Tr.29/OMÜ-506,OMÜ-507	2	Aydınkent, Ereğli, Konya	49	37°23'N 34°09'E	This study
	Tr.5/OMÜ-724	1	Hasangazi, Ulukışla, Niğde	50	37°33'N 34°38'E	This study
	Tr.20/OMÜ-629	1	Gümüş, Ulukışla, Niğde	51	37°29'N 34°37'E	This study
	Tr.57/OMÜ-1178	1	Ceyhan, Adana	52	37°01'N 35°49'E	This study
	Tr.66/OMÜ-587, Tr.67/OMÜ-588	2	Samandağ, Hatay	53	36°04'N 35°57'E	This study
	Tr.58/OMÜ-1180, Tr.59/OMÜ-1181	2	Türkoğlu, Kahramanmaraş	54	37°30'N 36°48'E	This study
	Tr.25/OMÜ-210	1	Gaziantep	55	37°04'N 37°24'E	This study
	Tr.72/OMÜ-1382, Tr.73/OMÜ-1383	2	Besni, Adıyaman	56	37°37'N 37°54'E	This study

	Tr.74/OMÜ-1378, Tr.75/OMÜ-1379	2	Siverek, Şanlıurfa	57	37°42'N 39°17'E	This study
	Tr.76/OMÜ-1384	1	Van	58	38°34'N 43°27'E	This study
EU106239	*mac*TR1		Bardakçı	59	39°10′N 28°34′E	Macholán et al. [20]
EU106240	*mac*TR2		Bardakçı		39°10′N 28°34′E	Macholán et al. [20]
EU106241	*mac*TR3		Datça	60	36°45′N 27°39′E	Macholán et al. [20]
EU106242	*mac*TR4		Datça		36°45′N 27°39′E	Macholán et al. [20]
EU106243	*mac*TR5		Karabulut	61	38°28′N 31°29′E	Macholán et al. [20]
EU106244	*mac*TR6		Akburun	62	37°47′N 31°36′E	Macholán et al. [20]
EU106245	*mac*TR7		Koyulhisar	63	40°19′N 37°38′E	Macholán et al. [20]
EU106246	*mac*TR8		Koyulhisar		40°19′N 37°38′E	Macholán et al. [20]
EU106247	*mac*TR9		Çaylık (Mağaracık)	64	36°09′N 35°56′E	Macholán et al. [20]
EU106248	*mac*TR10		Akçakale	65	36°43′N, 38°58′E	Macholán et al. [20]
			NORTH MACEDONIA			
U47535	*macedonicus*1		Gradsko	66	41°25'N 22°40'E	Prager et al. [16]
			BULGARIA			
AF506194	Bulgaria 1		Jitarovo	67	42°38'N 27°18'E	Orth et al. [19]
EU106225	*mac*BG9		Jitarovo		42°38′N 27°18′E	Macholán et al. [20]
EU106217 [a]	*mac*BG1		Prilep	68	43°24′N 27°55′E	Macholán et al. [20]
	*mac*BG1		Banya	69	42°48′N 27°53′E	Macholán et al. [20]
EU106218	*mac*BG2		Banya		42°48′N 27°53′E	Macholán et al. [20]
EU106219	*mac*BG3		Banya		42°48′N 27°53′E	Macholán et al. [20]
EU106220	*mac*BG4		Banya		42°48′N 27°53′E	Macholán et al. [20]

EU106221	*mac*BG5		Banya		42°48′N 27°53′E	Macholán et al. [20]
	*mac*BG1		Slantchev Briag	70	42°42′N 27°43′E	Macholán et al. [20]
EU106223	*mac*BG7		Slantchev Briag		42°42′N 27°43′E	Macholán et al. [20]
EU106224	*mac*BG8		Slantchev Briag		42°42′N 27°43′E	Macholán et al. [20]
	*mac*BG1		Iabeltchevo	71	42°43′N 27°16′E	Macholán et al. [20]
EU106226	*mac*BG10		Iabeltchevo		42°43′N 27°16′E	Macholán et al. [20]
	*mac*BG3		Veltsin	72	42°45′N 26°50′E	Macholán et al. [20]
	*mac*BG4		Veltsin		42°45′N 26°50′E	Macholán et al. [20]
EU106227	*mac*BG11		Veltsin		42°45′N 26°50′E	Macholán et al. [20]
EU106228	*mac*BG12		Partizanin	73	42°15′N 25°15′E	Macholán et al. [20]
EU106229	*mac*BG13		Partizanin		42°15′N 25°15′E	Macholán et al. [20]
			GREECE			
EU106230	*mac*GR1		Florina	74	40°47′N 21°25′E	Macholán et al. [20]
EU106231	*mac*GR2		Florina		40°47′N 21°25′E	Macholán et al. [20]
EU106232	*mac*GR3		Florina		40°47′N 21°25′E	Macholán et al. [20]
EU106233	*mac*GR4		Stavroupoli	75	41°12′N 24°43′E	Macholán et al. [20]
EU106234	*mac*GR5		Stavroupoli		41°12′N 24°43′E	Macholán et al. [20]
EU106235	*mac*GR6		Stavroupoli		41°12′N 24°43′E	Macholán et al. [20]
EU106236	*mac*GR7		Stavroupoli		41°12′N 24°43′E	Macholán et al. [20]
EU106237	*mac*GR8		Stavroupoli		41°12′N 24°43′E	Macholán et al. [20]
EU106238	*mac*GR9		Stavroupoli		41°12′N 24°43′E	Macholán et al. [20]
			GEORGIA			

AF506197	Georgia 1		Lagodekhi	76	41°49'N 46°16'E	Orth et al. [19]
AF506199	Georgia 2		Lagodekhi		41°49'N 46°16'E	Orth et al. [19]
AF506196	Georgia 3		Lagodekhi		41°49'N 46°16'E	Orth et al. [19]
AF506198	Georgia 4		Lagodekhi		41°49'N 46°16'E	Orth et al. [19]
AF506195	Georgia 5		Chirakskaya	77	41°22'N 46°21'E	Orth et al. [19]
EU106262	*mac*GE14		Chirakskaya		41°22′N 46°21′E	Macholán et al. [20]
EU106251	*mac*GE3		Chardakhi	78	41°52′N 44°35′E	Macholán et al. [20]
EU106252	*mac*GE4		Chardakhi		41°52′N 44°35′E	Macholán et al. [20]
EU106253	*mac*GE5		Chardakhi		41°52′N 44°35′E	Macholán et al. [20]
EU106249	*mac*GE1		Gori	79	41°52′N 43°30′E	Macholán et al. [20]
EU106250	*mac*GE2		Kareli	80	42°01′N 43°53′E	Macholán et al. [20]
	*mac*GE4		Lissi	81	41°44′N 44°47′E	Macholán et al. [20]
EU106254	*mac*GE6		Lissi		41°44′N 44°47′E	Macholán et al. [20]
EU106255	*mac*GE7		Lissi		41°44′N 44°47′E	Macholán et al. [20]
EU106256	*mac*GE8		Krtzanissi	82	41°36′N 44°57′E	Macholán et al. [20]
EU106257	*mac*GE9		Krtzanissi		41°36′N 44°57′E	Macholán et al. [20]
EU106258	*mac*GE10		Alazani	83	41°37′N 45°58′E	Macholán et al. [20]
EU106259	*mac*GE11		Alazani		41°37′N 45°58′E	Macholán et al. [20]
EU106260	*mac*GE12		Alazani		41°37′N 45°58′E	Macholán et al. [20]
EU106261	*mac*GE13		Alazani		41°37′N 45°58′E	Macholán et al. [20]
			DAGESTAN (RUSSIA)			
EU106263	*mac*DAG1		Derbent	84	42°04′N 48°17′E	Macholán et al. [20]

EU106264	*mac*DAG2		Derbent		42°04′N 48°17′E	Macholán et al. [20]
			IRAN			
AJ286328	*mac*Iran.3		Arak city	85	34°06'N 49°43'E	Gündüz et al. [18]
AJ286329	*mac*Iran.4		Kermanshah	86	34°27'N 47°53'E	Gündüz et al. [18]
EU106265	*mac*IR1		Bastam	87	38°54′N 44°59′E	Macholán et al. [20]
EU106266	*mac*IR2		Choplu	88	36°28′N 47°01′E	Macholán et al. [20]
EU106267	*mac*IR3		Choplu		36°28′N 47°01′E	Macholán et al. [20]
EU106268	*mac*IR4		Hinage	89	34°44′N 47°57′E	Macholán et al. [20]
EU106269	*mac*IR5		Bisoton	90	34°23′N 47°26′E	Macholán et al. [20]
EU106270	*mac*IR6		Bisoton		34°23′N 47°26′E	Macholán et al. [20]
	*mac*IR5		Pahlat	91	33°29′N 48°04′E	Macholán et al. [20]
EU106272	*mac*IR8		Pahlat		33°29′N 48°04′E	Macholán et al. [20]
EU106271	*mac*IR7		Bavinev	92	33°36′N 47°11′E	Macholán et al. [20]
HM235682	Iran_1		Hamadan, Famenin	93	35°06′N 48°57′E	Rajabi-Maham and Azizi [21]
HM235683	Iran_2		Hamadan, Famenin		35°06′N 48°57′E	Rajabi-Maham and Azizi [21]
HM235684	Iran_3		Hamadan, Famenin		35°06′N 48°57′E -	Rajabi-Maham and Azizi [21]
HM235685	Iran_4		Hamadan, Famenin		35°06′N 48°57′E	Rajabi-Maham and Azizi [21]
HM235686	Iran_5		Hamadan, Famenin		35°06′N 48°57′E	Rajabi-Maham and Azizi [21]
HM235687	Iran_6		Hamadan, Famenin		35°06′N 48°57′E	Rajabi-Maham and Azizi [21]

HM235688	Iran_7		Hamadan, Famenin		35°06′N 48°57′E	Rajabi-Maham and Azizi [21]
HM235689	Iran_8		Azarbaijan-e Sharghi, Maragheh	94	37°23′N 46°14′E	Rajabi-Maham and Azizi [21]
HM235690	Iran_9		Azarbaijan-e Sharghi, Maragheh		37°23′N 46°14′E	Rajabi-Maham and Azizi [21]
HM235691	Iran_10		Azarbaijan-e Garbi, Salmas	95	38°12′N 44°46′E	Rajabi-Maham and Azizi [21]
HM235692	Iran_11		Azarbaijan-e Garbi, Salmas		38°12′N 44°46′E	Rajabi-Maham and Azizi [21]
HM235693	Iran_12		Azarbaijan-e Garbi, Salmas		38°12′N 44°46′E	Rajabi-Maham and Azizi [21]
HM235694	Iran_13		Azarbaijan-e Garbi, Salmas		38°12′N 44°46′E	Rajabi-Maham and Azizi [21]
HM235695	Iran_14		Hamadan, Samen	96	34°24′N 48°59′E	Rajabi-Maham and Azizi [21]
HM235696	Iran_15		Hamadan, Samen		34°24′N 48°59′E	Rajabi-Maham and Azizi [21]
HM235697	Iran_16		Hamadan, Samen		34°24′N 48°59′E	Rajabi-Maham and Azizi [21]
HM235698	Iran_17		Hamadan, Samen		34°24′N 48°59′E	Rajabi-Maham and Azizi [21]
			SYRIA			
EU106273	*mac*SYR1		Rabi'ah	97	35°49′N 36°02′E	Macholán et al. [20]
EU106274	*mac*SYR2		Jabla	98	35°28′N 35°54′E	Macholán et al. [20]
EU106275	*mac*SYR3		Jabla		35°28′N 35°54′E	Macholán et al. [20]
EU106276	*mac*SYR4		Qattinah	99	34°40′N 36°37′E	Macholán et al. [20]

EU106277	*mac*SYR5		Qattinah		34°40′N 36°37′E	Macholán et al. [20]
			LEBANON			
EU106192	*mac*LEB1		El Fidar, Byblos	100	34°06′N 35°38′E	Macholán et al. [20]
EU106193	*mac*LEB2		El Fidar, Byblos		34°06′N 35°38′E	Macholán et al. [20]
			ISRAEL			
AF506193	Israel 1		Jerusalem	101	31°46'N 35°13'E	Orth et al. [19]
AF506192	Israel 2		Jerusalem		31°46'N 35°13'E	Orth et al. [19]
AF506188	Israel 3		Jerusalem		31°46'N 35°13'E	Orth et al. [19]
EU106190	*mac*ISR3		Jerusalem		31°46′N 35°13′E	Macholán et al. [20]
AF506191	Israel 4		Jerusalem	102	32°43'N 35°03'E	Orth et al. [19]
EU106191	*mac*ISR4		Jerusalem		32°43′N 35°03′E	Macholán et al. [20]
EU106188	*mac*ISR1		Dor	103	32°38′N 34°56′E	Macholán et al. [20]
AF506190	Israel 5		Dor		32°38'N 34°56'E	Orth et al. [19]
AF506189	Israel 6		Poriyya	104	32°42'N 35°37'E	Orth et al. [19]
EU106189	*mac*ISR2		Poriyya		32°42′N 35°37′E	Macholán et al. [20]

[a]Alignment of our 76 D-loop haplotypes (Tr.1 – Tr.3, Tr.5 – Tr.76, *mac*Turkey.4 [18]) with published shorter haplotypes resulted in the following redundant haplotype which was removed from the dataset: haplotype *mac*BG6 (accession number EU106222) from Banya, Bulgaria was the same as *mac*BG1 (accession number EU106217) from Prilep, Bulgaria.

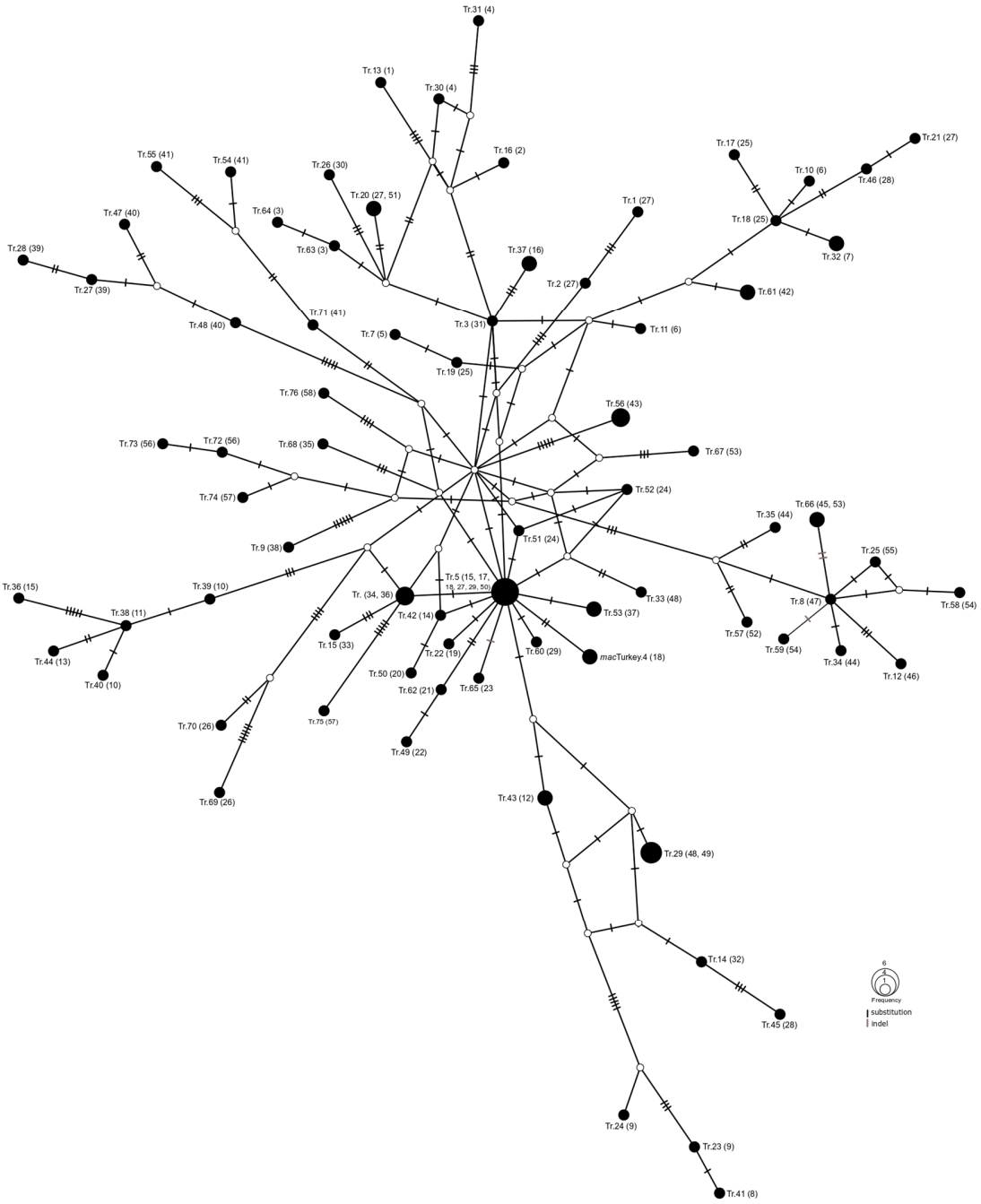

Figure S1. Median-joining network for 96 *Mus macedonicus* D-loop sequences, comprising 76 haplotypes, from Turkey. Each mutation between haplotypes is represented by a bar. The size of each circle is proportional to the frequency of the particular haplotype in the sample. Median vectors, which represent either extant unsampled sequences or extinct ancestral sequences, are indicated by blank circles. Location numbers are given in parentheses after haplotype IDs (see Figure 1 and Table S1).

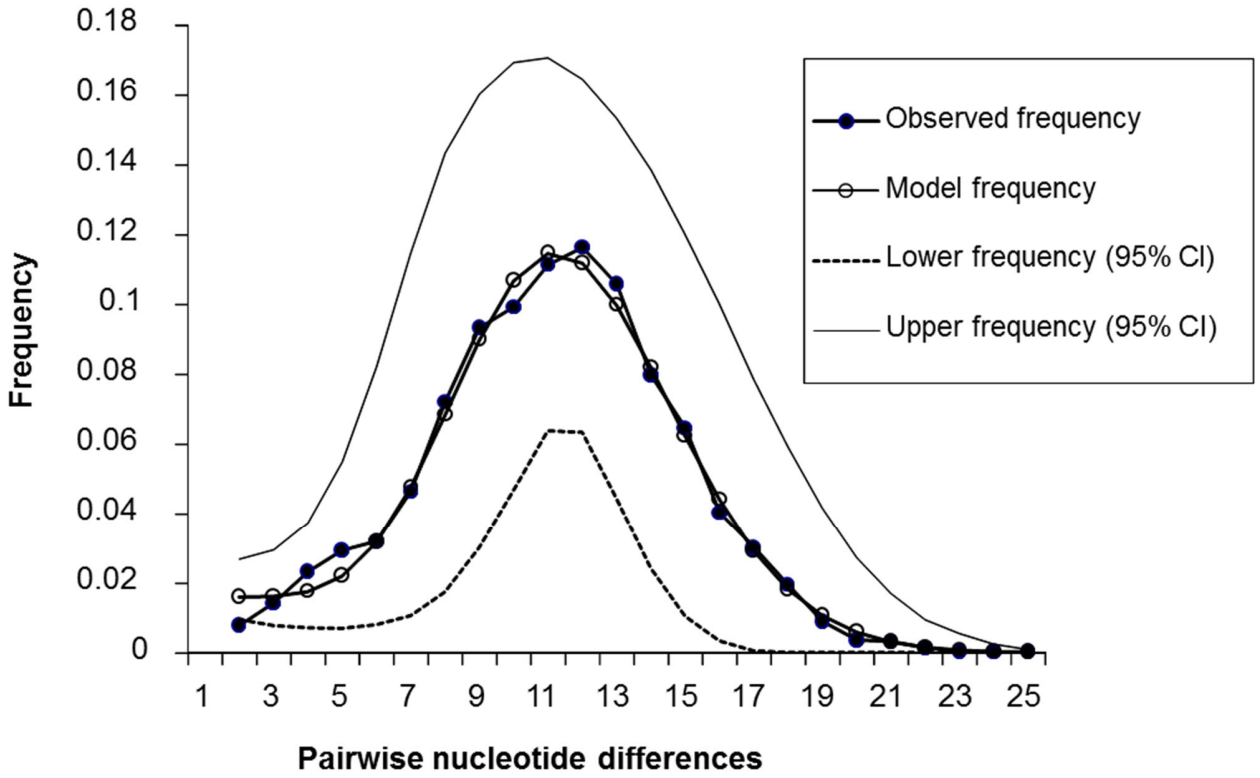

Figure S2. Mismatch distribution for D-loop sequences of *Mus macedonicus* from Turkey, compared with the sudden expansion model of Rogers [38].