

**Table S3.** List of the super-haplogroup U sequences used for phylogeny reconstruction

Haplogroup		N	Acc. No./ sequence ID	Population/ Archaeological site	Reference
K1a13		19	KC878721	French	Costa et al., 2013.
			MC1519	French	mtDNA Community
			JQ702193	French	Behar et al., 2012.
			JQ703526	French	Behar et al., 2012.
			JQ702796	Spanish	Behar et al., 2012.
K1a13a		14			
	K1a13a1	7	KM103655	Bosnian	Kovacevic et al., 2014.
			KM103657	Croatian	Kovacevic et al., 2014.
			KM103653	Croatian	Kovacevic et al., 2014.
			KM103658	Croatian	Kovacevic et al., 2014.
			JQ706030	Croatian	Behar et al., 2012.
			JN202723	Croatian	Family Tree DNA
			39_Sb	Serbian	this study
	K1a13a2	2	JQ704548	Spanish	Behar et al., 2012.
			MC3978	Spanish	mtDNA Community
	K1a13a3	2	AY339564	Finnish	Moilanen et al., 2003.
			AY339563	Finnish	Moilanen et al., 2003.
	Ka13a4	3	JQ702991	Irish	Behar et al., 2012.
			JQ705537	NA	Behar et al., 2012.
			GU944475	USA	Family Tree DNA
K1a2		46	JN647926	Armenian	Family Tree DNA
			AY495254	European	Coble et al., 2004.
			HM065508	Italian	Family Tree DNA

K1a2a	22	EF660927	Italian	Gasparre et al., 2007.	ancient
		KF723708	Italian	Family Tree DNA	
		MC3351	Italian	mtDNA Community	
		JQ703309	NA	Behar et al., 2012.	
		KC911410	Qashqai	Derenko et al., 2013.	
		NN_20	Russian	this study	
		80_Sb	Serbian	this study	
		KC878713	Turkish	Costa et al., 2013.	
		KF161641	Danish	Li et al., 2014.	
		JQ705620	German	Behar et al., 2012.	
		EU915473	Italian	Pello et al., 2008.	
		KT749777	Italian	Coia et al., 2016.	
		EU849002	NA	Family Tree DNA	
		JQ702031	NA	Behar et al., 2012.	
		JQ705354	NA	Behar et al., 2012.	
		JQ705646	Polish	Behar et al., 2012.	
		JQ703026	Scottish	Behar et al., 2012.	
		Troc4	Els Trocs, Spain	Haak et al., 2015.	
		JQ703041	UK	Behar et al., 2012.	
		JQ705456	UK	Behar et al., 2012.	
		MC1780	USA	mtDNA Community	
K1a2a1	5	JQ701856	NA	Behar et al., 2012.	
		MC3340	NA	mtDNA Community	
		JQ702748	Scottish	Behar et al., 2012.	
		NA20522	Tuscan	Gomez-Carbala et al., 2015.	
K1a2a2	6	MC2596	Finnish	mtDNA Community	
		KF171123	Finnish	Family Tree DNA	
		AY339565	Finnish	Moilanen et al., 2003.	
		JQ703581	NA	Behar et al., 2012.	
		MC723	USA	mtDNA Community	

K1a2b	6	EU760854	English	Family Tree DNA	
		HM041971	French	Family Tree DNA	
		MC3078	German	mtDNA Community	
		JQ704017	NA	Behar et al., 2012.	
		JQ706001	NA	Behar et al., 2012.	
		GQ281051	NA	Family Tree DNA	
K1a2c	7	JQ705149	Finnish	Behar et al., 2012.	ancient
		ROT3	Rothenschirmbach, Germany	Haak et al., 2015.	
		MC1359	NA	mtDNA Community	
		JQ703037	NA	Behar et al., 2012.	
		JQ702306	NA	Behar et al., 2012.	
		KC477768	Swedish	Family Tree DNA	
		MC3639	USA	mtDNA Community	
K1a4	284	KJ856742	Altaian	Derenko et al., 2014.	
		KC911418	Azeri	Derenko et al., 2013.	
		JX273272	Chechen	Costa et al., 2013.	
		Cz_III10	Czech	this study	
		AY495261	European	Coble et al., 2004.	
		AY495263	European	Coble et al., 2004.	
		EU130551	Italian	Family Tree DNA	
		JQ702505	Italian	Behar et al., 2012.	
		KT932091	Italian	Family Tree DNA	
		KT749800	Italian	Coia et al., 2016.	
		KT749812	Italian	Coia et al., 2016.	
		KT749811	Italian	Coia et al., 2016.	
		JQ703296	NA	Behar et al., 2012.	
		JX273285	Romanian	Costa et al., 2013.	
		JX273289	Syrian	Costa et al., 2013.	
		FJ348212	Tirol	Pichler 2010.	
		MC1072	USA	mtDNA Community	
		KM101805	USA	Just et al., 2015.	

K1a4a

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JQ705100	Ashkenazi	Behar et al., 2012.
JQ702521	German	Behar et al., 2012.
JX273260	Iraqi	Costa et al., 2013.
JX273281	Kabardian (Russia)	Costa et al., 2013.
JX273280	Kabardian (Russia)	Costa et al., 2013.
EU603401	NA	Family Tree DNA
JX273253	Palestinian	Costa et al., 2013.
MC88	Sicilian	mtDNA Community
JQ703493	Swiss	Behar et al., 2012.
KC878715	Turkish	Costa et al., 2013.

K1a4a1

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KF162673	Danish	Li et al., 2014.
AY495262	European	Coble et al., 2004.
JQ705229	English	Behar et al., 2012.
HM045846	English	Family Tree DNA
JQ703704	French	Behar et al., 2012.
EU616625	NA	Family Tree DNA
JQ704109	NA	Behar et al., 2012.
JQ705661	NA	Behar et al., 2012.
JQ701835	NA	Behar et al., 2012.
RISE154	Poland (Unetice)	Allentoft 2015.
JQ705785	Portuguese	Behar et al., 2012.
57_Sb	Serbian	this study
JQ705543	Spanish	Behar et al., 2012.
JQ702281	Spanish	Behar et al., 2012.
JQ704808	Swedish	Behar et al., 2012.
FJ460525	Tunisian	Costa et al., 2009.
JQ704320	UK	Behar et al., 2012.
KM101779	USA	Just et al., 2015.

ancient

K1a4a1a

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JQ705556	Croatian	Behar et al., 2012.
JX153374	Danish	Raule et al., 2014.
JX152839	Danish	Raule et al., 2014.

JX152846	Danish	Raule et al., 2014.
JX153933	Danish	Raule et al., 2014.
KF161488	Danish	Li et al., 2014.
KF161533	Danish	Li et al., 2014.
KF161684	Danish	Li et al., 2014.
KF161801	Danish	Li et al., 2014.
KF161116	Danish	Li et al., 2014.
KF162733	Danish	Li et al., 2014.
KF161295	Danish	Li et al., 2014.
KF161491	Danish	Li et al., 2014.
KF161531	Danish	Li et al., 2014.
KF162875	Danish	Li et al., 2014.
JX153646	Danish	Raule et al., 2014.
KF161995	Danish	Li et al., 2014.
KF161951	Danish	Li et al., 2014.
KF162058	Danish	Li et al., 2014.
KF162749	Danish	Li et al., 2014.
JX153525	Danish	Raule et al., 2014.
JX153663	Danish	Raule et al., 2014.
KF161092	Danish	Li et al., 2014.
KF162127	Danish	Li et al., 2014.
KF161836	Danish	Li et al., 2014.
KF161920	Danish	Li et al., 2014.
KF162364	Danish	Li et al., 2014.
JX153167	Danish	Raule et al., 2014.
KF161764	Danish	Li et al., 2014.
JX047544	English	Family Tree DNA
JN089380	English	Family Tree DNA
HQ907958	English	Family Tree DNA
MC1418	English	mtDNA Community
JX153264	Finnish	Raule et al., 2014.
JX153211	Finnish	Raule et al., 2014.
JX153253	Finnish	Raule et al., 2014.
KP752420	Finnish	Family Tree DNA

KR712273	Finnish	Family Tree DNA
JX153257	Finnish	Raule et al., 2014.
KF451073	French	Lippold et al., 2014.
JQ703763	French	Behar et al., 2012.
KF723707	German	Family Tree DNA
JQ705714	Hungarian	Behar et al., 2012.
MC205	Irish	mtDNA Community
JQ703782	Irish	Behar et al., 2012.
KT749782	Italian	Coia et al., 2016.
JQ702175	NA	Behar et al., 2012.
AY495265	NA	Coble et al., 2004.
JQ702213	NA	Behar et al., 2012.
JQ702700	NA	Behar et al., 2012.
JQ703007	NA	Behar et al., 2012.
JQ702773	NA	Behar et al., 2012.
JQ702811	NA	Behar et al., 2012.
JN122621	NA	Family Tree DNA
JQ704873	NA	Behar et al., 2012.
JQ703444	NA	Behar et al., 2012.
JQ705980	NA	Behar et al., 2012.
JQ705270	NA	Behar et al., 2012.
HM031133	NA	Family Tree DNA
JQ703685	NA	Behar et al., 2012.
EU328539	NA	Family Tree DNA
MC1046	NA	mtDNA Community
JQ702896	NA	Behar et al., 2012.
KJ801422	NA	Lang et al., 2015.
JQ701810	NA	Behar et al., 2012.
JQ702238	NA	Behar et al., 2012.
JQ703880	NA	Behar et al., 2012.
JQ703168	NA	Behar et al., 2012.
GU122978	Russian	Malyarchuk et al., 2010.
GU123015	Russian	Malyarchuk et al., 2010.
JQ340869	Scottish	Family Tree DNA

K1a4a1b	13	JN559854	Swedish	Family Tree DNA
		JQ702797	Swedish	Behar et al., 2012.
		MC1232	Swiss	mtDNA Community
		JQ703212	UK	Behar et al., 2012.
		KP718061	USA	Family Tree DNA
		KM101914	USA	Just et al., 2015.
		MC4884	USA	mtDNA Community
		GU361766	USA	Family Tree DNA
		KT700199	USA	Family Tree DNA
		KM101806	USA	Just et al., 2015.
		KM101905	USA	Just et al., 2015.
		GU371909	USA	Family Tree DNA
		MC1329	USA	mtDNA Community
K1a4a1c	7	MC124	Canadian	mtDNA Community
		MC2837	English	mtDNA Community
		GU191795	English	Family Tree DNA
		JQ702779	English	Behar et al., 2012.
		JQ703407	English	Behar et al., 2012.
		JQ703171	German	Behar et al., 2012.
		EU677385	NA	Family Tree DNA
		GU971379	NA	Family Tree DNA
		JQ704948	NA	Behar et al., 2012.
		JQ702471	NA	Behar et al., 2012.
		EF464682	NA	Family Tree DNA
		JQ702610	NA	Behar et al., 2012.
		MC1444	USA	mtDNA Community
		JF433953	British	Family Tree DNA
		JN258704	English	Family Tree DNA
		JX153840	Finnish	Raule et al., 2014.
		MC821	Finnish	mtDNA Community
		JQ705215	German	Behar et al., 2012.
		EU692798	NA	Family Tree DNA

K1a4a1d	4	KF703542	USA	Family Tree DNA
		AY495266	European	Coble et al., 2004.
		JQ705404	German	Behar et al., 2012.
		MC1892	NA	mtDNA Community
		JQ705558	UK	Behar et al., 2012.
K1a4a1e	9	EU597496	Basque	Hartmann et al., 2009.
		KJ446001	Basque	Zheng et al., 2014.
		KF162102	Danish	Li et al., 2014.
		KF162742	Danish	Li et al., 2014.
		JQ704526	Irish	Behar et al., 2012.
		JQ705838	Irish	Behar et al., 2012.
		JQ705938	NA	Behar et al., 2012.
		HM103359	NA	Gomez-Duran 2010.
		JQ702341	Norwegian	Behar et al., 2012.
K1a4a1f	10	HQ336048	British	Family Tree DNA
		JX127147	English	Family Tree DNA
		HQ843088	English	Family Tree DNA
		MC1001	NA	mtDNA Community
		JQ705816	NA	Behar et al., 2012.
		JQ703548	NA	Behar et al., 2012.
		JQ702302	NA	Behar et al., 2012.
		JQ702760	NA	Behar et al., 2012.
		KM101821	USA	Just et al., 2015.
		MC4090	USA	mtDNA Community
Ka1a4a1g	3	JX048671	Canadian	Family Tree DNA
		JQ704759	NA	Behar et al., 2012.
		JQ703807	NA	Behar et al., 2012.
K1a4a1h	4	KF161479	Danish	Li et al., 2014.
		KF161570	Danish	Li et al., 2014.



K1a4b	K1a4a1i	2	JQ701994	German	Behar et al., 2012.
			JN001930	USA	Family Tree DNA
	K1a4a1j	5	KF417432	English	Family Tree DNA
			JQ702315	NA	Behar et al., 2012.
	K1a4a1k	3	JQ704770	Polish	Behar et al., 2012.
			MC4185	Spanish	mtDNA Community
			JQ702744	UK	Behar et al., 2012.
			EU910091	USA	Family Tree DNA
			JN086562	USA	Family Tree DNA
	K1a4a1l	3	KF161586	Danish	Li et al., 2014.
			KT749781	Italian	Coia et al., 2016.
			KT749790	Italian	Coia et al., 2016.
	K1a4a1m	3	KT749779	Italian	Coia et al., 2016.
			KC878725	Italian	Costa et al., 2013.
			MC1489	Italian	mtDNA Community
	K1a4a1n	4	Snb09	Spanish	Ramos et al., 2013.
			Z144	Spanish	Ramos et al., 2013.
			Z273	Spanish	Ramos et al., 2013.
	K1a4a1o	2	JX273251	Chuvash (Russia)	Costa et al., 2013.
			JX273275	Chuvash (Russia)	Costa et al., 2013.
JQ704092			German	Behar et al., 2012.	
JQ704727			Irish	Behar et al., 2012.	
		JQ704078	NA	Behar et al., 2012.	
		MC3711	USA	mtDNA Community	
		11			
			KT749814	Italian	Coia et al., 2016.
			EU675299	NA	Family Tree DNA

Ka1a4b1	8	JX273287	Syrian	Costa et al., 2013.
		JN088539	Armenian	Family Tree DNA
		KF451142	Beduin	Lippold et al., 2014.
		EU600366	Druze	Shlush et al., 2008.
		KF451099	Druze	Lippold et al., 2014.
		KJ445988	Druze	Zheng et al., 2014.
		DQ301792	NA	Behar et al., 2006.
		JX273284	Palestinian	Costa et al., 2013.
K1a4c	9	JX273257	Romanian	Costa et al., 2013.
		DQ301809	NA	Behar et al., 2006.
K1a4c1	8	HQ435872	Armenian	Family Tree DNA
		HQ538515	Armenian	Family Tree DNA
		JQ703523	Italian	Behar et al., 2012.
		JQ706020	NA	Behar et al., 2012.
		KC911519	Persian	Derenko et al., 2013.
		NA20530	Tuscan	Gomez-Carbala et al., 2015.
		KM101939	USA	Just et al., 2015.
		KM101937	USA	Just et al., 2015.
K1a4d	26	Cz_V471	Czech	this study
		KF163019	Danish	Li et al., 2014.
		KF162139	Danish	Li et al., 2014.
		KF162073	Danish	Li et al., 2014.
		JF710373	Danish	Family Tree DNA
		KF163021	Danish	Li et al., 2014.
		KF162022	Danish	Li et al., 2014.
		KF162714	Danish	Li et al., 2014.
		JQ703085	English	Behar et al., 2012.
		JQ705775	English	Behar et al., 2012.
		EU714298	English	Family Tree DNA
		AY495255	European	Coble et al., 2004.

		AY495253	European	Coble et al., 2004.
		AY495259	European	Coble et al., 2004.
		JQ701838	French	Behar et al., 2012.
		EU926621	German	Family Tree DNA
		JQ704760	German	Behar et al., 2012.
		JQ703048	German	Behar et al., 2012.
		JQ704963	German	Behar et al., 2012.
		JQ705629	Irish	Behar et al., 2012.
		JQ703034	NA	Behar et al., 2012.
		JQ702076	NA	Behar et al., 2012.
		HM565771	NA	Family Tree DNA
		10_Sb	Serbian	this study
		JQ703025	Swiss	Behar et al., 2012.
		KM101857	USA	Just et al., 2015.
K1a4e	5			
		JQ704761	NA	Behar et al., 2012.
		JQ701973	NA	Behar et al., 2012.
		MC415	NA	mtDNA Community
		JX294315	UK	Family Tree DNA
		MC921	USA	mtDNA Community
K1a4f	12			
		KF163000	Danish	Li et al., 2014.
		KC900995	Greek	Family Tree DNA
		JX273279	Iraqi	Costa et al., 2013.
		JX273277	Iraqi	Costa et al., 2013.
		GU722601	NA	Family Tree DNA
		KF451223	Palestinian	Lippold et al., 2014.
		KF451261	Palestinian	Lippold et al., 2014.
		JX273267	Turkish	Costa et al., 2013.
K1a4f1	4			
		JX153062	Italian	Raule et al., 2014.
		JQ704764	Malta	Behar et al., 2012.
		EF177416	Portuguese	Pereira 2007.
		NA20828	Tuscan	Gomez-Carbala et al., 2015.

K1a4g		2	EU219921	NA	Family Tree DNA
			JQ705656	Swiss	Behar et al., 2012.
K1a4h		4	JQ703361	NA	Behar et al., 2012.
	K1a4h1	3	KC911589	Armenian	Derenko et al., 2013.
			EU564851	NA	Family Tree DNA
			JQ702911	NA	Behar et al., 2012.
K1a4i		4	JX273270	Adygei	Costa et al., 2013.
			KJ446006	Adygei	Zheng et al., 2014.
			HM852890	Georgian	Schonberg et al., 2011.
			JX273269	Turkish	Costa et al., 2013.
K1a4jj		5	JX273271	Azeri	Costa et al., 2013.
	K1a4j	4	KC878714	Turkish	Costa et al., 2013.
		3	KC911477	Armenian	Derenko et al., 2013.
			JX273292	Kurdish	Costa et al., 2013.
			JX273290	Kurdish	Costa et al., 2013.
K1a4k		2	JQ705162	NA	Behar et al., 2012.
			138_Sb	Serbian	this study
K1a4l		2	KT634229	Bulgarian	Family Tree DNA
			4_Sb	Serbian	this study
K1a30		6			
K1a30a		3	KC878710	Turkish	Costa et al., 2013.
			KC878711	Turkish	Costa et al., 2013.
			KM986530	Yemen	Vyas et al., 2016.

K1a30b	3	JN202911	French	Family Tree DNA
		JQ705751	NA	Behar et al., 2012.
		89_Sb	Serbian	this study
K1b1c	19	EU600370	Druze	Shlush et al., 2008.
		JX273293	Druze	Costa et al., 2013.
		GU455378	English	Family Tree DNA
		KC911572	Kurdish	Derenko et al., 2013.
		JQ703003	NA	Behar et al., 2012.
		5_Sb	Serbian	this study
		148_Sb	Serbian	this study
		145_Sb	Serbian	this study
		KC878717	Turkish	Costa et al., 2013.
		KC878716	Turkish	Costa et al., 2013.
		KP744017	USA	Family Tree DNA
K1b1c1	3	K663	Polish	this study
		P142	Polish	this study
		SI_218	Slovak	this study
K1b1c2	3	JX152834	Danish	Raule et al., 2014.
		JX153719	Danish	Raule et al., 2014.
		KF162621	Danish	Li et al., 2014.
K1b1c3	2	DQ301810	Palestinian	Behar et al., 2006.
		KC911594	Qashqai	Derenko et al., 2013.
K1b2a2	22	KF162900	Danish	Li et al., 2014.
		JQ705044	German	Behar et al., 2012.
		JQ705736	Irish	Behar et al., 2012.
		MC1665	Irish	mtDNA Community
		KJ856701	Khamnigan	Derenko et al., 2014.
		JQ702849	Polish	Behar et al., 2012.

U1a1c	U1a1c1	K1b2a2a	6	KJ856823	Russian	Derenko et al., 2014.
				23_Sb	Serbian	this study
				KC878718	Turkish	Costa et al., 2013.
				JQ702636	NA	Behar et al., 2012.
				JQ702325	NA	Behar et al., 2012.
				MC1733	Swedish	mtDNA Community
		K1b2a2b	5	KP419691	Swedish	Family Tree DNA
				KT821555	Swedish	Family Tree DNA
				EU849091	Swedish	Family Tree DNA
				KJ856772	Buryat	Derenko et al., 2014.
				KJ856838	Russian	Derenko et al., 2014.
				KJ856840	Russian	Derenko et al., 2014.
		K1b2a2c	2	JQ774501	Russian	Family Tree DNA
				KJ856836	Russian	Derenko et al., 2014.
				KF163028	Danish	Li et al., 2014.
				EU372659	NA	Family Tree DNA
				22		
				19		
		U1a1c1a	2	KM434265	USA	Family Tree DNA
				AY714038	Indian	Palanichamy et al., 2004.
				FJ748753	Tibetan	Ji et al., 2012.
		U1a1c1b	2	JQ704034	Italian	Behar et al., 2012.
				NA20826	Tuscan	Gomez-Carbala et al., 2015.
		U1a1c1c	5	KC911388	Persian	Derenko et al., 2013.
				KC911365	Persian	Derenko et al., 2013.
		U1a1c1c1	3	JN872374	Italian	Perli et al., 2012.
				DQ523621	Sardinian	Fraumene et al., 2006.

U1a1c1d	9	DQ523634	Sardinian	Fraumene et al., 2006.
		JX462732	Indian	Khan et al., NCBI
		KF451000	Pakistani	Lippold et al., 2014.
		KM047208	Polish	Skonieczna et al., 2015.
	2	KC911306	Persian	Derenko et al., 2013.
		KC911527	Qashqai	Derenko et al., 2013.
	2	MC3198	Indian	mtDNA Community
		AY714042	Indian	Palanichamy et al., 2004.
	2	KC911457	Azeri	Derenko et al., 2013.
		KF451137	Beduin	Lippold et al., 2014.
U1a1c2	3	168_Sb	Serbian	this study
		93_Sb	Serbian	this study
		JX153116	Greek	Raule et al., 2014.
U2e1b1	18	KJ856731	Belarusian	Derenko et al., 2014.
		KJ856725	Belarusian	Derenko et al., 2014.
		JQ664543	Croatian	Fu et al., 2012.
		KF161340	Danish	Li et al., 2014.
		KF163041	Danish	Li et al., 2014.
		KF162886	Danish	Li et al., 2014.
		JQ705384	Finnish	Behar et al., 2012.
		MC2793	NA	mtDNA Community
		JQ702663	NA	Behar et al., 2012.
		JQ704773	NA	Behar et al., 2012.
		KJ856798	Polish	Derenko et al., 2014.
		JQ703917	Polish	Behar et al., 2012.
		KJ856830	Russian	Derenko et al., 2014.
		170_Sb	Serbian	this study
		KJ856835	Ukrainian	Derenko et al., 2014.

U3a	U2e1b1a	3	KJ856817	Polish	Derenko et al., 2014.	ancient
			KJ856812	Polish	Derenko et al., 2014.	
			KJ856833	Ukrainian	Derenko et al., 2014.	
	U2e2a1d	12	KJ856698	Belarusian	Derenko et al., 2014.	
			HM156683	Indian	Govindaraj et al., 2011.	
			HM156688	Indian	Govindaraj et al., 2011.	
			JQ701947	NA	Behar et al., 2012.	
			JQ702004	NA	Behar et al., 2012.	
			JQ701890	NA	Behar et al., 2012.	
			KJ856714	Russian	Derenko et al., 2014.	
			KJ856678	Russian	Derenko et al., 2014.	
			KJ856696	Russian	Derenko et al., 2014.	
			KJ856710	Russian	Derenko et al., 2014.	
			KJ856690	Russian	Derenko et al., 2014.	
			52_Sb	Serbian	this study	
		82	HQ436348	Armenian	Family Tree DNA	
			HM852891	Georgian	Schonberg et al., 2011.	
			KT779172	Lebanese	Matisoo-Smith et al., 2016.	
	U3a1	54	KJ856809	Czech	Derenko et al., 2014.	
			JX153939	Danish	Raule et al., 2014.	
			KF162006	Danish	Li et al., 2014.	
			JX152854	Danish	Raule et al., 2014.	
			KF162390	Danish	Li et al., 2014.	
			KF162263	Danish	Li et al., 2014.	
			SALZ3B	Salzmünde-Schiebzig, Germany	Haak et al., 2015.	
			KT779191	Lebanese	Matisoo-Smith et al., 2016.	
			MC825	Mexican	mtDNA Community	
			EU057183	NA	Family Tree DNA	
			JQ705387	NA	Behar et al., 2012.	



U3a1a	16	HM625682	NA	Kloss-Brandstatter et al., 2010.
		HQ404665	Spanish	Family Tree DNA
		MC1883	USA	mtDNA Community
		KF161897	Danish	Li et al., 2014.
		KF162268	Danish	Li et al., 2014.
		KF161357	Danish	Li et al., 2014.
		JQ704950	Irish	Behar et al., 2012.
		MC838	Irish	mtDNA Community
		JX153017	Italian	Raule et al., 2014.
		MC1112	Lithuanian	mtDNA Community
		JQ703990	NA	Behar et al., 2012.
		MC2790	NA	mtDNA Community
		JQ705871	NA	Behar et al., 2012.
		JN203207	Polish	Family Tree DNA
		KJ856806	Russian	Derenko et al., 2014.
U3a1b	3	GU122986	Russian	Malyarchuk et al., 2010.
		KJ856754	Russian	Derenko et al., 2014.
		FJ968795	USA	Family Tree DNA
		MC4085	USA	mtDNA Community
U3a1c	14	JQ702681	NA	Behar et al., 2012.
		MC146	NA	mtDNA Community
		JQ702677	NA	Behar et al., 2012.
		KF162718	Danish	Li et al., 2014.
		JX154057	Danish	Raule et al., 2014.
		KF162675	Danish	Li et al., 2014.
		KF161178	Danish	Li et al., 2014.
U3a1c1	7	KF161165	Danish	Li et al., 2014.
		JQ703769	German	Behar et al., 2012.
		AF381982	Spanish	Maca-Meyer et al., 2001.
		KF161553	Danish	Li et al., 2014.

			KF161262	Danish	Li et al., 2014.
			JX153689	Danish	Raule et al., 2014.
			HQ286323	English	Family Tree DNA
			MC622	Irish	mtDNA Community
			JQ705739	NA	Behar et al., 2012.
			JQ704420	NA	Behar et al., 2012.
U3a1d		2			
			144_Sb	Serbian	this study
			DQ156213	Spanish	Montiel-Sosa 2005.
U3a1e		5			
			KF162097	Danish	Li et al., 2014.
			KF162952	Danish	Li et al., 2014.
			KF161806	Danish	Li et al., 2014.
			JX154025	Danish	Raule et al., 2014.
			JQ705014		Behar et al., 2012.
U3a2		12			
			MC1326	English	mtDNA Community
			MC2685	NA	mtDNA Community
			KC911305	Persian	Derenko et al., 2013.
			JQ618033	USA	Family Tree DNA
U3a2a		8			
			KJ856832	Belarusian	Derenko et al., 2014.
			JX153094	Italian	Raule et al., 2014.
			FJ348224	NA	Pichler 2010.
			KP726893	Russian	Family Tree DNA
	U3a2a1	4			
			KC911314	Persian	Derenko et al., 2013.
			KC911522	Qashqai	Derenko et al., 2013.
			KC911568	Qashqai	Derenko et al., 2013.
			AY882383	Yemen	Achilli et al., 2005.
U3a3		4			
			95_Sb	Serbian	this study
U3a3a		3			
			HM852895	Georgian	Schonberg et al., 2011.

U3a4	4	JQ704440	NA	Behar et al., 2012.
		KC911491	Persian	Derenko et al., 2013.
		KT779163	Lebanese	Matisoo-Smith et al., 2016.
		KT779202	Lebanese	Matisoo-Smith et al., 2016.
		KT779189	Lebanese	Matisoo-Smith et al., 2016.
U3a5	3	KC911550	Persian	Derenko et al., 2013.
		KJ445942	Algerian	Zheng et al., 2014.
		KJ445941	Algerian	Zheng et al., 2014.
		KJ445940	Algerian	Zheng et al., 2014.
U3a6	2	KP184339	German	Family Tree DNA
		AF381983	Moroccan	Maca-Meyer et al., 2001.
U4a2	104	HM453049	Austrian	Family Tree DNA
		MC495	Austrian	mtDNA Community
		EU545430	Belarusian	Malyarchuk et al., 2008.
		KF161939	Danish	Li et al., 2014.
		KF162727	Danish	Li et al., 2014.
		MC1595	Dutch	mtDNA Community
		MC1012	English	mtDNA Community
		JQ704052	Estonian	Behar et al., 2012.
		JQ705609	Finnish	Behar et al., 2012.
		HM852885	Georgian	Schonberg et al., 2011.
		JX153114	Italian	Raule et al., 2014.
		DQ156209	NA	Montiel-Sosa 2005.
		KC911285	Persian	Derenko et al., 2013.
		KJ856813	Polish	Derenko et al., 2014.
		KC911382	Qashqai	Derenko et al., 2013.
		KF451402	Russian	Lippold et al., 2014.
		EU545453	Slovak	Malyarchuk et al., 2008.
		EU545455	Slovak	Malyarchuk et al., 2008.

U4a2a

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KJ856727	Altaian	Derenko et al., 2014.
KJ856718	Altaian	Derenko et al., 2014.
KF162833	Danish	Li et al., 2014.
EST74	Estonian	Stoljarova et al., 2016.
JX153621	Finnish	Raule et al., 2014.
AY882387	Italian	Achilli et al., 2005.
MC387	Lithuanian	mtDNA Community
JQ702403	Lithuanian	Behar et al., 2012.
EF222249	NA	Malyarchuk et al., 2008.
JQ705907	NA	Behar et al., 2012.
KM047234	Polish	Skonieczna et al., 2015.
EU545450	Russian	Malyarchuk et al., 2008.
EU545440	Russian	Malyarchuk et al., 2008.
KM096779	Serbian	Davidovic et al., 2015.
EU545458	Slovak	Malyarchuk et al., 2008.
JQ705363	Swedish	Behar et al., 2012.

U4a2a1

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KJ445968	Chinese	Zheng et al., 2014.
KF162134	Danish	Li et al., 2014.
EF222236	Polish	Malyarchuk et al., 2008.
EF222250	Polish	Malyarchuk et al., 2008.
EF222237	Polish	Malyarchuk et al., 2008.
KM096774	Serbian	Davidovic et al., 2015.
JQ702094	Swedish	Behar et al., 2012.
MC438	Swedish	mtDNA Community

U4a2a2

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JQ705566	Danish	Behar et al., 2012.
JX154043	Danish	Raule et al., 2014.
JQ704321	German	Behar et al., 2012.
EF222238	NA	Malyarchuk et al., 2008.
EU545461	Slovak	Malyarchuk et al., 2008.

U4a2a3

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EF222239	NA	Malyarchuk et al., 2008.
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U4a2b	U4a2a4	2	EU545446	Russian	Malyarchuk et al., 2008.
			MC824	NA	mtDNA Community
			JQ702942	NA	Behar et al., 2012.
	U4a2a5	2	EU545425	Czech	Malyarchuk et al., 2008.
			KM047229	Polish	Skonieczna et al., 2015.
		13	MC184	Austrian	mtDNA Community
			KF162652	Danish	Li et al., 2014.
			JX153535	Danish	Raule et al., 2014.
			AY339550	Finnish	Moilanen et al., 2003.
			JQ705121	German	Behar et al., 2012.
			MC2651	NA	mtDNA Community
			EF222241	Polish	Malyarchuk et al., 2008.
			EF222240	Polish	Malyarchuk et al., 2008.
			GU123033	Russian	Malyarchuk et al., 2010.
			MC48	Russian	mtDNA Community
U4a2c	U4a2c1	5	NA20512	Tuscan	Gomez-Carbala et al., 2015.
			JQ703385	UK	Behar et al., 2012.
			JX239772	USA	Family Tree DNA
U4a2d	U4a2c2	2	EU545464	Belarusian	Malyarchuk et al., 2008.
			KM096781	Serbian	Davidovic et al., 2015.
		3	EU545421	Czech	Malyarchuk et al., 2008.
			JQ705152	German	Behar et al., 2012.
			JQ702351	Scottish	Behar et al., 2012.

U4a2e	4	JQ702862	NA	Behar et al., 2012.
		JQ704772	NA	Behar et al., 2012.
		EU545442	Russian	Malyarchuk et al., 2008.
		EU545456	Slovak	Malyarchuk et al., 2008.
U4a2f	4	KF162665	Danish	Li et al., 2014.
		JQ705828	NA	Behar et al., 2012.
		JQ704811	Spanish	Behar et al., 2012.
		KM233203	Swedish	Family Tree DNA
U4a2g	9	JX154049	Danish	Raule et al., 2014.
		KF450863	Hazar	Lippold et al., 2014.
		JQ480650	NA	Family Tree DNA
		KM047227	Polish	Skonieczna et al., 2015.
		MC501	Russian	mtDNA Community
U4a2g1	4	MC963	Finnish	mtDNA Community
		KP691018	Russian	Family Tree DNA
		EU545434	Russian	Malyarchuk et al., 2008.
		KM096773	Serbian	Davidovic et al., 2015.
U4a2h	7	KF161329	Danish	Li et al., 2014.
		EF222235	NA	Malyarchuk et al., 2008.
		JX289843	USA	Family Tree DNA
U4a2h1	4	JX152824	Danish	Raule et al., 2014.
		JX153725	Danish	Raule et al., 2014.
		KF161509	Danish	Li et al., 2014.
		JQ702549	Dutch	Behar et al., 2012.
U4a2i	4	MC1371	NA	mtDNA Community
		JQ705655	NA	Behar et al., 2012.
		JQ701841	NA	Behar et al., 2012.

					KJ856818	Polish	Derenko et al., 2014.	
	U4a2j				2			
					JQ705919	English	Behar et al., 2012.	
					KJ716337	German	Family Tree DNA	
U4b					103			
					KC911585	Persian	Derenko et al., 2013.	
					JQ705130	Portuguese	Behar et al., 2012.	
					EU545444	Russian	Malyarchuk et al., 2008.	
					11_Sb	Serbian	this study	
U4b1					73			
	U4b1a				42			
		U4b1a1			16			
			U4b1a1a		15	HM044301	Icelandic	Family Tree DNA
					JQ705255	English	Behar et al., 2012.	
					JQ705865	NA	Behar et al., 2012.	
					JQ703912	NA	Behar et al., 2012.	
					84_Sb	Serbian	this study	
					KJ856687	Ukrainian	Derenko et al., 2014.	
			U4b1a1a1		10			
					AY882388	Adygei	Achilli et al., 2005.	
					KJ445953	Adygei	Zheng et al., 2014.	
					ESP11	Esperstedt, Germany	Haak et al., 2015.	ancient
					EF660983	Italian	Gasparre et al., 2007.	
					KJ445952	Pakistani	Zheng et al., 2014.	
					KC911524	Persian	Derenko et al., 2013.	
					68_Sb	Serbian	this study	
					FJ460530	Tunisian	Costa et al., 2009.	
			U4b1a1a1a		2			
					JX152963	Greek	Raule et al., 2014.	
					104_Sb	Serbian	this study	
					13			
					HM041972	Canadian	Family Tree DNA	
					JQ702446	NA	Behar et al., 2012.	
		U4b1a2						

	U4b1a2a	6	EU545415	Belarusian	Malyarchuk et al., 2008.
			JX153652	Danish	Raule et al., 2014.
			KF162643	Danish	Li et al., 2014.
			KF163023	Danish	Li et al., 2014.
			EF660921	Italian	Gasparre et al., 2007.
			JQ704098	NA	Behar et al., 2012.
	U4b1a2b	5	JX153376	Danish	Raule et al., 2014.
			JQ701876	NA	Behar et al., 2012.
			MC3772	NA	mtDNA Community
			JQ701990	NA	Behar et al., 2012.
			MC203	Norwegian	mtDNA Community
U4b1a3		8			
	U4b1a3a	7	EU545419	Polish	Malyarchuk et al., 2008.
			KF161791	Danish	Li et al., 2014.
			KF162688	Danish	Li et al., 2014.
			EU571946	Hungarian	Maasz 2008.
			HM625699	NA	Kloss-Brandstatter et al., 2010.
			KJ801420	NA	Lang et al., 2015.
			FJ858802	USA	Family Tree DNA
			MC2380	USA	mtDNA Community
U4b1a4		5			
			KF450970	Kalash	Lippold et al., 2014.
			KC911400	Qashqai	Derenko et al., 2013.
			FJ147313	Russian	Sukernik et al., 2012.
			FJ147314	Russian	Sukernik et al., 2012.
			FJ147316	Russian	Sukernik et al., 2012.
U4b1b'b1b		31			
			FJ147315	Altaian	Sukernik et al., 2012.
U4b1b		30			
	U4b1b1	29			
			JN647925	Armenian	Family Tree DNA



U4b1b1a	7	HM852897	Georgian	Schonberg et al., 2011.
		HM852884	Georgian	Schonberg et al., 2011.
		JQ705342	NA	Behar et al., 2012.
		JQ705560	NA	Behar et al., 2012.
		GQ859272	NA	Guillet 2010.
		JQ704021	NA	Behar et al., 2012.
		JQ701911	NA	Behar et al., 2012.
		KJ801419	NA	Lang et al., 2015.
		KR105198	Scottish	Family Tree DNA
		EU545463	Slovak	Malyarchuk et al., 2008.
U4b1b1b	4	MC275	Canadian	mtDNA Community
		HM535647	English	Family Tree DNA
		GU797476	Irish	Family Tree DNA
		MC4218	NA	mtDNA Community
		JQ703886	NA	Behar et al., 2012.
		MC2193	Scottish	mtDNA Community
		MC2234	USA	mtDNA Community
U4b1b1c'	6	JX153717	Danish	Raule et al., 2014.
		JQ704155	NA	Behar et al., 2012.
		JQ702864	NA	Behar et al., 2012.
		KM101946	USA	Just et al., 2015.
U4b1b1c	3	KJ856738	Altaian	Derenko et al., 2014.
		KJ856683	Russian	Derenko et al., 2014.
		KJ856794	Russian	Derenko et al., 2014.
U4b1b1d	1	KC911460	Khorasani	Derenko et al., 2013.
		GU123041	Russian	Malyarchuk et al., 2010.
		GU123039	Russian	Malyarchuk et al., 2010.
		JX153693	Danish	Raule et al., 2014.

	U4b1b2	1	JQ704676	NA	Behar et al., 2012.
U4b2		11	KF450991	Burusho	Lippold et al., 2014.
			EU140898	NA	Family Tree DNA
U4b2a		9	JQ701937	NA	Behar et al., 2012.
			JQ702783	NA	Behar et al., 2012.
			KM101964	USA	Just et al., 2015.
	U4b2a1	6	KF161555	Danish	Li et al., 2014.
			GQ891957	USA	Family Tree DNA
	U4b2a1a	4	HQ190906	German	Family Tree DNA
			EF452295	NA	Family Tree DNA
			GU365881	Northern European	Family Tree DNA
			HM856584	USA	Family Tree DNA
U4b3		13	KJ856783	Buryat	Derenko et al., 2014.
			JX152874	Danish	Raule et al., 2014.
			JX152951	Danish	Raule et al., 2014.
			KF161430	Danish	Li et al., 2014.
			KF162145	Danish	Li et al., 2014.
			JX152952	Danish	Raule et al., 2014.
			EST110	Estonian	Stoljarova et al., 2016.
			EST98	Estonian	Stoljarova et al., 2016.
			EU007874	Kchanti	Ingman et al., 2007.
			KT779185	Lebanese	Matisoo-Smith et al., 2016.
			KT779199	Lebanese	Matisoo-Smith et al., 2016.
			FJ147322	Siberian	Sukernik et al., 2012.
			GU727823	USA	Family Tree DNA
U4b4		2	KF162547	Danish	Li et al., 2014.
			JQ702211	NA	Behar et al., 2012.

U4c1

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EU545465	Belarusian	Malyarchuk et al., 2008.
KJ856792	Czech	Derenko et al., 2014.
KF162508	Danish	Li et al., 2014.
KF162433	Danish	Li et al., 2014.
KF161496	Danish	Li et al., 2014.
JQ704326	Dutch	Behar et al., 2012.
JQ704993	English	Behar et al., 2012.
EST24	Estonian	Stoljarova et al., 2016.
FJ348178	German	Pichler 2010.
HQ286589	Hungarian	Family Tree DNA
JQ704121	Irish	Behar et al., 2012.
MC3995	NA	mtDNA Community
EU135973	NA	Family Tree DNA
MC460	NA	mtDNA Community
JQ704181	NA	Behar et al., 2012.
KC911375	Persian	Derenko et al., 2013.
KC911396	Persian	Derenko et al., 2013.
KC911453	Persian	Derenko et al., 2013.
HQ591466	Polish	Family Tree DNA
KM047213	Polish	Skonieczna et al., 2015.
EF222248	Polish	Malyarchuk et al., 2008.
KP406603	Romanian	Family Tree DNA
MC4857	Romanian	mtDNA Community
JQ704661	Scottish	Behar et al., 2012.
134_Sb	Serbian	this study
EU545462	Slovak	Malyarchuk et al., 2008.
JQ704675	UK	Behar et al., 2012.
GU471242	USA	Family Tree DNA
KM101758	USA	Just et al., 2015.
HM003577	USA	Family Tree DNA

U4c1a

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JX153870	Danish	Raule et al., 2014.
KF161599	Danish	Li et al., 2014.

U4d	U4c1b	U4c1b1	5	KF162998	Danish	Li et al., 2014.
				JX153069	Italian	Raule et al., 2014.
				JX153455	Italian	Raule et al., 2014.
			3	KP733896	Bulgarian	Family Tree DNA
				66_Sb	Serbian	this study
				53_Sb	Serbian	this study
			2			
				KF161305	Danish	Li et al., 2014.
				KF161597	Danish	Li et al., 2014.
			3			
	U4c1c	U4c1d		JQ702777	English	Behar et al., 2012.
				MC230	English	mtDNA Community
				JQ703900	UK	Behar et al., 2012.
	U4c1e	U4c1f	3			
				KF161794	Danish	Li et al., 2014.
				KU552334	Swedish	Family Tree DNA
				KJ675742	Swedish	Family Tree DNA
	U4d1	U4d1b	3			
				JX153153	Danish	Raule et al., 2014.
				KF161404	Danish	Li et al., 2014.
				KF162738	Danish	Li et al., 2014.
	U4d1b	U4d1b	38			
			21			
				HQ167735	Dutch	Family Tree DNA
				MC141	Lithuanian	mtDNA Community
	U4d1b	U4d1b		MC527	NA	mtDNA Community
				MC3092	Polish	mtDNA Community
			8			
				EST41	Estonian	Stoljarova et al., 2016.
				EST92	Estonian	Stoljarova et al., 2016.
				EST108	Estonian	Stoljarova et al., 2016.
				MC3320	German	mtDNA Community

U4d1a		MC3265	Polish	mtDNA Community
		EU545448	Russian	Malyarchuk et al., 2008.
		EU545438	Russian	Malyarchuk et al., 2008.
		GU122982	Russian	Malyarchuk et al., 2010.
	U4d1a1	GU123021	Russian	Malyarchuk et al., 2010.
		EST95	Estonian	Stoljarova et al., 2016.
		MC1106	Finnish	mtDNA Community
		AY339549	Finnish	Moilanen et al., 2003.
	U4d1a1a	JQ702267	Finnish	Behar et al., 2012.
		JQ702154	NA	Behar et al., 2012.
		KF451413	Russian	Lippold et al., 2014.
		JX153233	Finnish	Raule et al., 2014.
	U4d2	JQ704741	NA	Behar et al., 2012.
		EU007891	Mongolian	Ingman et al., 2007.
		KF451219	Palestinian	Lippold et al., 2014.
		GU122985	Volga Tatar	Malyarchuk et al., 2010.
	U4d2a	GU122988	Volga Tatar	Malyarchuk et al., 2010.
		FJ230891	Nganasan	Volodko et al., 2008.
		KJ856788	Tuvinian	Derenko et al., 2014.
		KF148381	Yakut	Duggan et al., 2013.
	U4d2b	EU545426	Czech	Malyarchuk et al., 2008.
		KJ856735	Khakassian	Derenko et al., 2014.
		JQ655422	Polish	Family Tree DNA
		KJ856699	Russian	Derenko et al., 2014.
		KJ445951	Russian	Zheng et al., 2014.
		58_Sb	Serbian	this study
U4d3		KF162695	Danish	Li et al., 2014.

U5a1a1

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JQ705926	NA	Behar et al., 2012.
GU244374	Scottish	Family Tree DNA
GU727822	USA	Family Tree DNA
GU296583	Belarusian	Malyarchuk et al., 2010.
KF161767	Danish	Li et al., 2014.
KF161166	Danish	Li et al., 2014.
MC2362	English	mtDNA Community
KJ868086	English	Family Tree DNA
EST52	Estonian	Stoljarova et al., 2016.
MC712	German	mtDNA Community
MC1184	German	mtDNA Community
EU523128	German	Family Tree DNA
MC3290	German	mtDNA Community
JQ702038	German	Behar et al., 2012.
MC903	German	mtDNA Community
JQ705617	Irish	Behar et al., 2012.
MC902	Irish	mtDNA Community
MC949	Irish	mtDNA Community
KT364276	Italian	Ancora et al., 2016.
JQ704708	NA	Behar et al., 2012.
JQ705430	NA	Behar et al., 2012.
JQ702339	NA	Behar et al., 2012.
EU698951	NA	Family Tree DNA
JQ703614	NA	Behar et al., 2012.
JQ704915	NA	Behar et al., 2012.
JQ705132	NA	Behar et al., 2012.
KF451199	Palestinian	Lippold et al., 2014.
EU597527	Palestinian	Hartmann et al., 2009.
KJ446102	Palestinian	Zheng et al., 2014.
MC3966	Romanian	mtDNA Community
JQ701869	Spanish	Behar et al., 2012.
HM852852	Turkish	Schonberg et al., 2011.
JQ704930	UK	Behar et al., 2012.

U5a1a1a'b'h	48	MC524	USA	mtDNA Community	
		MC2811	USA	mtDNA Community	
		KM101774	USA	Just et al., 2015.	
		SVP52	Lopatino I, Russia	Haak et al., 2015.	ancient
		SVP50	Luzkhi I, Russia	Haak et al., 2015.	ancient
		JX153722	Danish	Raule et al., 2014.	
		JX152792	Danish	Raule et al., 2014.	
		JX153888	Danish	Raule et al., 2014.	
		KF161673	Danish	Li et al., 2014.	
		JX153802	Danish	Raule et al., 2014.	
		KF161162	Danish	Li et al., 2014.	
		JX153762	Danish	Raule et al., 2014.	
		KF163045	Danish	Li et al., 2014.	
		JX153131	Danish	Raule et al., 2014.	
		JX152809	Danish	Raule et al., 2014.	
		KF161903	Danish	Li et al., 2014.	
		KF161341	Danish	Li et al., 2014.	
		EST56	Estonian	Stoljarova et al., 2016.	
		KC763424	Finnish	Soini et al., 2013.	
		KC763419	Finnish	Soini et al., 2013.	
U5a1a1a	8	KJ446101	Hazar	Zheng et al., 2014.	
		KF450864	Hazar	Lippold et al., 2014.	
		GU296636	Polish	Malyarchuk et al., 2010.	
		GU296573	Polish	Malyarchuk et al., 2010.	
		GU296601	Russian	Malyarchuk et al., 2010.	
		GU296594	Russian	Malyarchuk et al., 2010.	
		GU296595	Russian	Malyarchuk et al., 2010.	
		GU296581	Belarusian	Malyarchuk et al., 2010.	
		JQ703906	Croatian	Behar et al., 2012.	
		GU296564	Czech	Malyarchuk et al., 2010.	
		MC1285	German	mtDNA Community	
		JQ701834	German	Behar et al., 2012.	

U5a1a1b	14	MC1862	NA	mtDNA Community
		JQ702085	NA	Behar et al., 2012.
		GU296558	Russian	Malyarchuk et al., 2010.
		GU296652	Belarusian	Malyarchuk et al., 2010.
		KF161103	Danish	Li et al., 2014.
		KF162072	Danish	Li et al., 2014.
		KF162108	Danish	Li et al., 2014.
		KF161380	Danish	Li et al., 2014.
		KF162148	Danish	Li et al., 2014.
		KF162175	Danish	Li et al., 2014.
		JQ704725	English	Behar et al., 2012.
		GU206811	Finnish	Family Tree DNA
		JQ703937	NA	Behar et al., 2012.
		KM220890	Russian	Family Tree DNA
U5a1a1h	4	KR809713	Swedish	Family Tree DNA
		MC2703	Swedish	mtDNA Community
		NA20812	Tuscan	Gomez-Carbala et al., 2015.
U5a1a1c	11	KF162056	Danish	Li et al., 2014.
		JX153217	Finnish	Raule et al., 2014.
		GQ368895	Polish	Family Tree DNA
		KM378619	Russian	Family Tree DNA
		KF161545	Danish	Li et al., 2014.
		KF162861	Danish	Li et al., 2014.
		KF162395	Danish	Li et al., 2014.
		KF162003	Danish	Li et al., 2014.
		KF162704	Danish	Li et al., 2014.
		JQ702437	NA	Behar et al., 2012.
		JQ704022	NA	Behar et al., 2012.
		JQ704658	NA	Behar et al., 2012.
		JQ702696	Russian	Behar et al., 2012.
		JQ702922	Scottish	Behar et al., 2012.



U5a1a1d'd	28	JQ703590	Slovenian	Behar et al., 2012.
		JQ704920	NA	Behar et al., 2012.
		HM852873	Turkish	Schonberg et al., 2011.
U5a1a1d	26	JX441882	Czech	Family Tree DNA
		JX152822	Danish	Raule et al., 2014.
		JX153912	Danish	Raule et al., 2014.
		KF161640	Danish	Li et al., 2014.
		MC2766	English	mtDNA Community
		JQ701958	German	Behar et al., 2012.
		GU459066	Irish	Family Tree DNA
		MC235	Irish	mtDNA Community
		JQ704961	NA	Behar et al., 2012.
		JQ703297	NA	Behar et al., 2012.
		KR858869	Scottish	Family Tree DNA
		GQ160809	Scottish	Family Tree DNA
		JQ705479	UK	Behar et al., 2012.
U5a1a1d1	13	KF161882	Danish	Li et al., 2014.
		JX154024	Danish	Raule et al., 2014.
		KF162217	Danish	Li et al., 2014.
		KF161993	Danish	Li et al., 2014.
		MC2205	English	mtDNA Community
		JQ701866	Irish	Behar et al., 2012.
		JQ702809	NA	Behar et al., 2012.
		JQ701903	NA	Behar et al., 2012.
		KC257387	NA	Sequeira et al., 2015.
		JQ704695	NA	Behar et al., 2012.
		MC2989	Swedish	mtDNA Community
		MC3322	USA	mtDNA Community
		JQ705318	Welsh	Behar et al., 2012.
U5a1a1e	4	JQ705621	NA	Behar et al., 2012.

U5a1a1g	5	MC2510	NA	mtDNA Community
		JQ704796	NA	Behar et al., 2012.
		MC844	USA	mtDNA Community
		KP128017	English	Family Tree DNA
		KT779182	Lebanese	Matisoo-Smith et al., 2016.
U5a1a1i	2	KT779180	Lebanese	Matisoo-Smith et al., 2016.
		JQ705243	NA	Behar et al., 2012.
		MC1472	Norwegian	mtDNA Community
		JQ582984	English	Family Tree DNA
		JX153282	Italian	Raule et al., 2014.
U5a1a1j	2	127_Sb	Serbian	this study
		X93334	Swedish	Arnason et al., 1996.
U5a1a1k	2	JQ701913	English	Behar et al., 2012.
		MC3212	USA	mtDNA Community
U5a1a1l	2	KP735165	Czech	Family Tree DNA
		JQ703965	NA	Behar et al., 2012.
		JQ705065	NA	Behar et al., 2012.
U5a1a1m	3	KC911503	Qashqai	Derenko et al., 2013.
		MC4018	Slovak	mtDNA Community
		DQ785296	NA	Family Tree DNA
U5a1a1n	2	JQ702078	NA	Behar et al., 2012.
		JQ704823	English	Behar et al., 2012.
U5a1a1o	2	KC911582	Khalaj	Derenko et al., 2013.
		JQ702730	NA	Behar et al., 2012.
U5a1a1p	2	KM101910	USA	Just et al., 2015.

U5a1a2a	29	HQ588904	Armenian	Family Tree DNA	
		GU296557	Buryat	Malyarchuk et al., 2010.	
		JQ705855	German	Behar et al., 2012.	
		MC569	German	mtDNA Community	
		BZH12	Benzingerode-Heimburg, Germany	Haak et al., 2015.	ancient
		HM852836	Iranian	Schonberg et al., 2011.	
		JQ702806	NA	Behar et al., 2012.	
		JQ703717	NA	Behar et al., 2012.	
		GU296620	Russian	Malyarchuk et al., 2010.	
		GU296623	Russian	Malyarchuk et al., 2010.	
		KF451396	Russian	Lippold et al., 2014.	
		GU123037	Russian	Malyarchuk et al., 2010.	
		KJ446097	Russian	Zheng et al., 2014.	
		62_Sb	Serbian	this study	
		JQ702871	Turkish	Behar et al., 2012.	
U5a1a2a1	10	JX153678	Danish	Raule et al., 2014.	
		KC175644	English	Family Tree DNA	
		KC862290	English	Family Tree DNA	
		JQ705849	NA	Behar et al., 2012.	
		JQ702568	NA	Behar et al., 2012.	
		JQ703926	Polish	Behar et al., 2012.	
		KC602499	Swedish	Family Tree DNA	
		MC1657	Swedish	mtDNA Community	
		KR349268	USA	Family Tree DNA	
		MC1007	USA	mtDNA Community	
U5a1a2a2	4	KF161215	Danish	Li et al., 2014.	
		KF161506	Danish	Li et al., 2014.	
		KF161948	Danish	Li et al., 2014.	
		JQ704990	NA	Behar et al., 2012.	

U5a2b

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KU727896	Bulgarian	Family Tree DNA
GU296559	Buryat	Malyarchuk et al., 2010.
KJ856766	Buryat	Derenko et al., 2014.
KJ856782	Buryat	Derenko et al., 2014.
KF161858	Danish	Li et al., 2014.
KF161711	Danish	Li et al., 2014.
GU296577	Hamnigan	Malyarchuk et al., 2010.
KT779196	Lebanese	Matisoo-Smith et al., 2016.
MC173	NA	mtDNA Community
KM047194	Polish	Skonieczna et al., 2015.
FJ460552	Tunisian	Costa et al., 2009.
GU371930	Ukrainian	Family Tree DNA

U5a2b1

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GU296653	Belarusian	Malyarchuk et al., 2010.
KF162973	Danish	Li et al., 2014.
MC4879	NA	mtDNA Community
GU296549	Polish	Malyarchuk et al., 2010.
GU296624	Russian	Malyarchuk et al., 2010.
GU296632	Russian	Malyarchuk et al., 2010.
GU296618	Russian	Malyarchuk et al., 2010.
GU296593	Russian	Malyarchuk et al., 2010.

U5a2b1a

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GU296651	Belarusian	Malyarchuk et al., 2010.
KF161578	Danish	Li et al., 2014.
JX153861	Danish	Raule et al., 2014.
JX153363	Danish	Raule et al., 2014.
KP266547	Irish	Family Tree DNA
MC2704	Irish	mtDNA Community
KP877127	Italian	Barcaccia et al., 2015.
MC2154	NA	mtDNA Community
JQ705696	Polish	Behar et al., 2012.
GU296633	Russian	Malyarchuk et al., 2010.

U5a2b	U5a2b1b	4	JQ655176	Sicilian	Family Tree DNA
			GU296560	Czech	Malyarchuk et al., 2010.
			JQ704044	German	Behar et al., 2012.
			GU296607	Russian	Malyarchuk et al., 2010.
			MC1245	Swiss	mtDNA Community
	U5a2b1c	4	KP726908	Czech	Family Tree DNA
			GU296600	Russian	Malyarchuk et al., 2010.
			GU296629	Russian	Malyarchuk et al., 2010.
			KM101983	USA	Just et al., 2015.
	U5a2b1d	3	GU296656	Belarusian	Malyarchuk et al., 2010.
			EST44	Estonian	Stoljarova et al., 2016.
			JQ703087	Greek	Behar et al., 2012.
	U5a2b1e	3			
			GU296622	Russian	Malyarchuk et al., 2010.
U5a2b2	U5a2b1e1	2	146_Sb	Serbian	this study
			22_Sb	Serbian	this study
	U5a2b1f	3	KF161453	Danish	Li et al., 2014.
			EST46	Estonian	Stoljarova et al., 2016.
			EF660930	Italian	Gasparre et al., 2007.
	U5a2b1g	2	GU296578	Belarusian	Malyarchuk et al., 2010.
			KF162779	Danish	Li et al., 2014.
	U5a2b1h	2	JQ702746	German	Behar et al., 2012.
			KT900258	Portuguese	Family Tree DNA
	U5a2b2	6	KP189245	Austrian	Family Tree DNA
			KC246057	Italian	Family Tree DNA
			NA20765	Tuscan	Gomez-Carbala et al., 2015.

U5a2b3	U5a2b2a	3	JQ702184	NA	Behar et al., 2012.	ancient
	U5a2b2a1	2	GU296587	Polish	Malyarchuk et al., 2010.	
			GU296646	Slovak	Malyarchuk et al., 2010.	
	U5a2b3a	6	KC661077	NA	Family Tree DNA	
			KF161415	Danish	Li et al., 2014.	
			KF161321	Danish	Li et al., 2014.	
			JX153580	Finnish	Raule et al., 2014.	
			JQ702847	NA	Behar et al., 2012.	
	U5a2b3a1	2	JN899603	English	Family Tree DNA	
			JQ702230	Italian	Behar et al., 2012.	
U5a2b4	U5a2b4a	4	KF162213	Danish	Li et al., 2014.	
			BENZ14	Benzingerode, Germany	Haak et al., 2015.	
			JQ702320	NA	Behar et al., 2012.	
			MC1480	USA	mtDNA Community	
			JX153863	Danish	Raule et al., 2014.	
			MC3216	NA	mtDNA Community	
U5a2b5	U5a2b5	3	JQ704895	NA	Behar et al., 2012.	
			KC146708	NA	Family Tree DNA	
			EU597544	Italian	Hartmann et al., 2009.	
			KJ446096	Italian	Zheng et al., 2014.	
U5a2b6	U5a2b6	2	NA20760	Tuscan	Gomez-Carbala et al., 2015.	
			JQ702392	NA	Behar et al., 2012.	
			123_Sb	Serbian	this study	

U5b1a	U5a2b7	2	JQ703987	NA	Behar et al., 2012.	
			JQ702917	NA	Behar et al., 2012.	
		9	JN544933	English	Family Tree DNA	
			FJ194437	French	Family Tree DNA	
			KU534977	Berry-Au-Bac, France	Posth et al., 2016.	ancient
			KC521455	Loschbour, Luxembourg	Fu et al., 2013.	ancient
			JQ704875	NA	Behar et al., 2012.	
	U5b1a1	4	JQ703849	Polish	Behar et al., 2012.	
			GU296590	Russian	Malyarchuk et al., 2010.	
			96_Sb	Serbian	this study	
U5b1e	U5b1e	49	135_Sb	Serbian	this study	
			GU296582	Belarusian	Malyarchuk et al., 2010.	
			KJ446109	French	Zheng et al., 2014.	
			KU534978	Ranchot, France	Posth et al., 2016.	ancient
			HQ675040	NA	Seoane et al., 2011.	
			7_Sb	Serbian	this study	
			NA20540	Tuscan	Gomez-Carbala et al., 2015.	
	U5b1e	38	KT372902	English	Family Tree DNA	
			Z087	Spanish	Ramos et al., 2013.	
			JX677560	USA	Family Tree DNA	
U5b1e1		35	JX153868	Danish	Raule et al., 2014.	
			KF161292	Danish	Li et al., 2014.	
			EST97	Estonian	Stoljarova et al., 2016.	
			JX153815	Finnish	Raule et al., 2014.	
			JX152975	Finnish	Raule et al., 2014.	
			JX153824	Finnish	Raule et al., 2014.	
			JX153826	Finnish	Raule et al., 2014.	

U5b1e1a	6	JQ704302	German	Behar et al., 2012.
		MC845	German	mtDNA Community
		MC1456	Latvian	mtDNA Community
		KC257380	NA	Sequeira et al., 2015.
		JQ705267	NA	Behar et al., 2012.
		JQ705608	NA	Behar et al., 2012.
		MC1481	NA	mtDNA Community
		JQ705742	NA	Behar et al., 2012.
		MC1479	NA	mtDNA Community
		KJ446113	Palestinian	Zheng et al., 2014.
		KF451218	Palestinian	Lippold et al., 2014.
		KF451217	Palestinian	Lippold et al., 2014.
		KJ446114	Palestinian	Zheng et al., 2014.
		FJ493517	Russian	Sukernik et al., 2012.
		GU122991	Russian	Malyarchuk et al., 2010.
		GU296630	Russian	Malyarchuk et al., 2010.
		GU296647	Slovak	Malyarchuk et al., 2010.
		GU296645	Slovak	Malyarchuk et al., 2010.
		GU296639	Slovak	Malyarchuk et al., 2010.
		JQ705405	UK	Behar et al., 2012.
		GU295665	USA	Family Tree DNA
		MC1765	USA	mtDNA Community
U5b1h	3	FJ499497	Crimean Tatar	Family Tree DNA
		GU296571	Czech	Malyarchuk et al., 2010.
		GU296585	Polish	Malyarchuk et al., 2010.
		GU296631	Russian	Malyarchuk et al., 2010.
		MC1799	Ukrainian	mtDNA Community
		MC1606	Ukrainian	mtDNA Community
		JQ705183	NA	Behar et al., 2012.
		JQ703755	NA	Behar et al., 2012.
		JQ704053	NA	Behar et al., 2012.



U5b1j		2	KT956911	French	Family Tree DNA
			KM101862	USA	Just et al., 2015.
U5b3		80	GQ129146	Croatian	Pala et al., 2009.
			GQ129144	French	Pala et al., 2009.
			GQ129148	Italian	Pala et al., 2009.
			GQ129147	Spanish	Pala et al., 2009.
U5b3a		29			
	U5b3a1	21			
		19			
			AF346988	Italian	Ingman et al., 2000.
			GQ129151	Sardinian	Pala et al., 2009.
			GQ129150	Sardinian	Pala et al., 2009.
			KJ446118	Sardinian	Zheng et al., 2014.
			DQ523664	Sardinian	Fraumene et al., 2006.
			DQ523658	Sardinian	Fraumene et al., 2006.
			DQ523655	Sardinian	Fraumene et al., 2006.
			DQ523624	Sardinian	Fraumene et al., 2006.
			DQ523628	Sardinian	Fraumene et al., 2006.
			GQ129153	Sardinian	Pala et al., 2009.
			GQ129152	Sardinian	Pala et al., 2009.
			GQ129155	Sardinian	Pala et al., 2009.
			GQ129154	Sardinian	Pala et al., 2009.
			EU597508	Sardinian	Hartmann et al., 2009.
			KF451190	Sardinian	Lippold et al., 2014.
			DQ523669	Sardinian	Fraumene et al., 2006.
			DQ523644	Sardinian	Fraumene et al., 2006.
			GQ129156	Sardinian	Pala et al., 2009.
			KJ446117	Sardinian	Zheng et al., 2014.
			GQ129149	Sardinian	Pala et al., 2009.
		2			
			GQ129157	French	Pala et al., 2009.
			GQ129158	USA	Pala et al., 2009.
	U5b3a1b				

U5b3a2	8	JQ702792	English	Behar et al., 2012.
		EU926618	English	Family Tree DNA
		EST112	Estonian	Stoljarova et al., 2016.
		GQ129164	Estonian	Pala et al., 2009.
		GQ129161	Italian	Pala et al., 2009.
		GQ129162	Italian	Pala et al., 2009.
		GQ129163	USA	Pala et al., 2009.
		KM101745	USA	Just et al., 2015.
U5b3b	12	GQ129168	Italian	Pala et al., 2009.
		JQ704971	Scottish	Behar et al., 2012.
U5b3b1	6	GQ129167	Czech	Pala et al., 2009.
		GQ129165	Greek	Pala et al., 2009.
		KT445932	Irish	Family Tree DNA
		JQ702146	NA	Behar et al., 2012.
		GQ129166	Spanish	Pala et al., 2009.
		MC1675	USA	mtDNA Community
U5b3b2	4	JX153697	Danish	Raule et al., 2014.
		GQ129169	German	Pala et al., 2009.
		EU130681	NA	Family Tree DNA
		JQ703971	NA	Behar et al., 2012.
U5b3c	3	GQ129172	Italian	Pala et al., 2009.
		GQ129170	Sardinian	Pala et al., 2009.
		GQ129171	Spanish	Pala et al., 2009.
U5b3d	2	GQ129174	Iraqi	Pala et al., 2009.
		GQ129173	Spanish	Pala et al., 2009.
U5b3e	7	GQ129178	Bulgarian	Pala et al., 2009.
		JQ702295	Czech	Behar et al., 2012.

U5b3f	5	KF162843	Danish	Li et al., 2014.
		HQ658737	Dutch	Family Tree DNA
		GQ129176	German	Pala et al., 2009.
		GQ129177	Polish	Pala et al., 2009.
		GQ129175	UK	Pala et al., 2009.
		GQ129183	Italian	Pala et al., 2009.
		GQ129180	Italian	Pala et al., 2009.
		GQ129181	Italian	Pala et al., 2009.
		GQ129182	Spanish	Pala et al., 2009.
		GQ129179	USA	Pala et al., 2009.
U5b3g	5	MC22	Australian	mtDNA Community
		JQ689453	Irish	Family Tree DNA
		GQ129143	Italian	Pala et al., 2009.
		KM101984	USA	Just et al., 2015.
		MC1408	USA	mtDNA Community
U5b3h	6	JX154014	Danish	Raule et al., 2014.
		KF161350	Danish	Li et al., 2014.
		JX153636	Danish	Raule et al., 2014.
		JX153407	Danish	Raule et al., 2014.
		JN315868	German	Family Tree DNA
		MC320y	German	mtDNA Community
U5b3i	2	GU296563	Czech	Malyarchuk et al., 2010.
		JQ705968	English	Behar et al., 2012.
U5b3j	2	GQ129145	Bosnian	Pala et al., 2009.
U5b3k	3	21_Sb	Serbian	this study
		GQ129159	Italian	Pala et al., 2009.
		KT779174	Lebanese	Matisoo-Smith et al., 2016.
		GQ129160	Moroccan	Pala et al., 2009.

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KF161502	Danish	Li et al., 2014.
JX152844	Danish	Raule et al., 2014.
KT359595	German	Family Tree DNA
MC787	German	mtDNA Community
GU213255	Indian	Palanichamy et al., 2015.
GU213256	Indian	Palanichamy et al., 2015.
GU213247	Indian	Palanichamy et al., 2015.
KR139750	Italian	Family Tree DNA
JQ705198	NA	Behar et al., 2012.
AY882391	Pakistani	Achilli et al., 2005.
KC911278	Persian	Derenko et al., 2013.
GU213236	Russian	Palanichamy et al., 2015.
109_Sb	Serbian	this study
GU213241	Slovak	Palanichamy et al., 2015.
AF382011	Spanish	Maca-Meyer et al., 2001.
MC2242	USA	mtDNA Community

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EU445686	Italian	Brisigheli et al., 2009.
EU445683	Italian	Brisigheli et al., 2009.
EU445687	Italian	Brisigheli et al., 2009.
EU445690	Italian	Brisigheli et al., 2009.
EU445691	Italian	Brisigheli et al., 2009.
EU445689	Italian	Brisigheli et al., 2009.
EU445684	Italian	Brisigheli et al., 2009.
EU445688	Italian	Brisigheli et al., 2009.
EU445685	Italian	Brisigheli et al., 2009.

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JX153191	Finnish	Raule et al., 2014.
GQ176284	Finnish	Family Tree DNA
JX153172	Finnish	Raule et al., 2014.
KC763409	Finnish	Soini et al., 2013.
GU213258	Indian	Palanichamy et al., 2015.
MC3583	NA	mtDNA Community

U7b3		2	JQ704100	NA	Behar et al., 2012.
			KF161517	Danish	Li et al., 2014.
			KF162984	Danish	Li et al., 2014.
U7b4		2	GU213253	Indian	Palanichamy et al., 2015.
			GU213244	Indian	Palanichamy et al., 2015.
	U8a1a1a	8			
	U8a1a1a1	2	HM765458	NA	Zaragoza 2010.
			JQ705281	Swiss	Behar et al., 2012.
	U8a1a1a2	2	KJ856801	Czech	Derenko et al., 2014.
			172_Sb	Serbian	this study
	U8a1a1a3	4	DQ200803	Basque	Gonzalez 2006.
			GU299344	English	Family Tree DNA
			JQ704011	NA	Behar et al., 2012.
			JQ705819	Swedish	Behar et al., 2012.

NA - not available; N- Number of sequences

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