

Supplementary Table S2. Detailed list of population samples used in this study

Geographic Region	Sample size	Population	Country	Latitude	Longitude	A	B	C	DQA1	DQB1	DRB1	References
SAF	44	Akan	Ivory Coast	5.0	-4.0	No	Yes	No	No	No	No	(1)
SAF	90	Bantu	Congo	0.1	18.3	No	No	No	Yes	Yes	No	(2)
SAF	77	Cameroon	Cameroon	5.5	10.4	No	Yes	Yes	No	No	No	(3)
SAF	174	Cameroon	Cameroon	2.9	11.2	Yes	Yes	Yes	No	No	No	(3)
SAF	126	Cameroon	Cameroon	3.9	11.5	No	No	No	Yes	Yes	Yes	(4)
SAF	13	Cameroon	Cameroon	4.8	10.0	Yes	Yes	Yes	No	No	No	(3)
SAF	92	Cameroon	Cameroon	3.9	11.5	Yes	Yes	No	No	No	No	(5)
SAF	129	Dogon	Mali	14.4	-3.6	Yes	Yes	Yes	No	No	Yes	(6)
SAF	138	Dogon	Mali	14.1	-3.1	Yes	Yes	Yes	No	No	No	(7)
SAF	167	Haut-Ogooue Dienga	Gabon	-1.6	13.6	No	No	No	Yes	Yes	No	(8)
SAF	131	Ga-Adangbe	Ghana	5.8	0.2	Yes	Yes	Yes	No	No	No	(9)
SAF	48	Balanta	Guinea Bissau	11.3	-15.1	Yes	No	No	No	No	No	(10)
SAF	23	Bijago	Guinea Bissau	11.3	-15.9	Yes	No	No	No	No	No	(10)
SAF	31	Fula	Guinea Bissau	12.4	-14.4	Yes	No	No	No	No	No	(10)
SAF	25	Papel	Guinea Bissau	12.1	-15.9	Yes	No	No	No	No	No	(10)
SAF	65	Guinea Bissau	Guinea Bissau	12.0	-15.0	Yes	Yes	No	No	No	Yes	(11)
SAF	265	Luo	Kenya	-0.1	34.6	Yes	Yes	Yes	No	No	No	(7)
SAF	240	Nandi	Kenya	0.3	35.0	Yes	Yes	Yes	No	No	No	(7)
SAF	144	Kenyan	Kenya	-1.5	36.1	Yes	Yes	Yes	Yes	Yes	No	(6)
SAF	112	Kenyan	Kenya	-1.3	36.8	Yes	Yes	Yes	Yes	Yes	No	(6)

SAF	165	Mandenka	Senegal	12.6	-12.2	Yes	Yes	No	No	No	No	(12)
SAF	163	Merina	Madagascar	-18.4	47.2	No	No	No	Yes	Yes	Yes	(13)
SAF	93	Pygmy Aka	Congo	3.1	18.1	No	No	No	No	No	Yes	(2)
SAF	281	Kigali Hutu and Tutsi	Rwanda	-2.0	30.1	No	No	No	No	No	Yes	(6)
SAF	32	Angolar	Sao Tome	0.3	6.7	Yes	Yes	No	No	No	Yes	(14)
SAF	66	Forro	Sao Tome	0.3	6.7	Yes	Yes	No	No	No	Yes	(14)
SAF	230	Shona	Zimbabwe	-17.9	31.0	Yes	Yes	Yes	Yes	Yes	Yes	(6)
SAF	200	South African	South Africa	-30.0	25.0	Yes	Yes	Yes	No	No	Yes	(15)
SAF	100	Zulu	South Africa	-29.0	31.0	Yes	No	No	No	No	No	(16)
SAF	161	Ugandan	Uganda	0.0	32.1	Yes	Yes	Yes	No	No	No	(7)
SAF	175	Ugandan	Uganda	0.3	32.5	Yes	Yes	Yes	No	No	No	(17)
SAF	82	Xhosa	South Africa	-32.3	22.7	Yes	Yes	Yes	No	No	No	(18)
SAF	44	Lusaka	Zambia	-15.4	28.3	Yes	Yes	Yes	No	No	No	(7)
SAF	43	Zambians	Zambia	-15.0	28.3	Yes	Yes	Yes	No	No	No	(6)
SAF	186	Zulu	South Africa	-30.0	31.0	Yes	Yes	Yes	Yes	Yes	Yes	(6)
SAF	69	Amhara	Morocco	11.2	39.9	No	No	No	No	No	Yes	(6)
NAF	67	Arab Chaouya	Morocco	33.0	-7.4	Yes	Yes	No	No	No	Yes	(6)
NAF	70	Arab Chaouya	Morocco	30.4	-7.4	Yes	Yes	Yes	Yes	Yes	Yes	(19)
NAF	58	Arab	Algeria	35.4	-0.4	No	No	No	No	No	Yes	(13)
NAF	99	Arab	Algeria	35.5	-0.4	No	No	No	No	No	Yes	(6)
NAF	97	Arab	Algeria	36.7	3.2	No	No	No	No	No	Yes	
NAF	97	Arab	Algeria	35.8	-0.6	No	No	No	No	No	Yes	(18)
NAF	100	Arab	Algeria	35.7	-0.7	No	No	No	No	No	Yes	(6)
NAF	98	Arab	Morocco	30.3	-9.4	No	No	No	Yes	Yes	Yes	(6)
NAF	91	Arab	Morocco	33.2	-8.5	No	No	No	No	No	Yes	(6)
NAF	98	Arab	Morocco	30.5	-8.9	No	No	No	Yes	Yes	No	(20)

NAF	95	Arab	Tunisia	33.9	10.1	Yes	Yes	No	No	No	Yes	(21)
NAF	96	Arab	Tunisia	33.9	10.1	No	No	No	No	No	Yes	(22)
NAF	82	Arab	Tunisia	33.0	10.3	No	No	No	No	No	Yes	(23)
NAF	104	Arab	Tunisia	36.8	10.2	No	No	No	No	No	Yes	(23)
NAF	111	Arab	Tunisia	36.8	10.2	No	No	No	No	No	Yes	(24)
NAF	52	Arab	Tunisia	34.5	9.3	No	No	No	No	No	Yes	(18)
NAF	100	Arab	Tunisia	35.0	9.0	Yes	No	No	Yes	Yes	Yes	(25)
NAF	68	Berber	Morocco	35.3	-4.0	Yes	Yes	No	No	No	Yes	(6)
NAF	63	Berber	Morocco	35.2	-3.1	Yes	Yes	Yes	Yes	Yes	Yes	(6)
NAF	99	Berber	Morocco	35.2	-2.9	No	No	No	No	No	Yes	(26)
NAF	73	Berber	Morocco	35.2	-2.9	Yes	Yes	Yes	No	No	No	(27)
NAF	55	Berber	Tunisia	33.8	10.9	No	No	No	No	No	Yes	(22)
NAF	81	Berber	Tunisia	33.5	10.0	No	No	No	No	No	Yes	(22)
NAF	40	Copts	Egypt	30.0	31.0	No	No	No	Yes	Yes	Yes	Personal communication
NAF	98	Amhara	Ethiopia	9.0	38.7	No	No	No	No	No	Yes	(28)
NAF	83	Oromo	Ethiopia	9.0	38.7	No	No	No	No	No	Yes	(28)
NAF	230	Sudanese	Sudan	15.6	32.5	Yes	Yes	Yes	No	No	Yes	(29)
NAF	52	Tunisian	Tunisia	33.0	10.4	No	No	No	No	No	Yes	(18)
EUR	82	Chuvash	Russia	55.5	47.0	No	No	No	No	No	Yes	(30)
EUR	145	Albanian	Albania	41.0	20.0	No	No	Yes	No	No	Yes	(18)
EUR	120	Albanian	Kosovo	42.6	21.0	Yes	Yes	Yes	No	No	Yes	(29)
EUR	57	Austrian	Austria	47.1	10.9	Yes	No	No	No	No	No	(18)
EUR	83	Basque	Spain	43.0	-3.0	No	No	No	No	No	Yes	(31)
EUR	34838	Belgian	Belgium	50.8	4.0	No	No	No	No	No	Yes	
EUR	40	Belgian	Belgium	50.3	4.5	No	No	No	Yes	Yes	No	(13)
EUR	354	British	UK	52.1	-0.4	No	No	No	No	No	Yes	(32)
EUR	177	British	UK	51.5	-0.1	No	No	No	Yes	Yes	Yes	(33)
EUR	298	British	UK	53.0	-3.0	Yes	Yes	Yes	No	No	Yes	(34)

EUR	1000	British	UK	52.5	-3.5	Yes	Yes	Yes	No	No	Yes	(29)
EUR	55	Bulgarian	Bulgaria	42.0	23.0	Yes	Yes	No	No	No	No	(35)
EUR	4000	Croatian	Croatia	45.8	15.9	Yes	Yes	No	No	No	Yes	(36)
EUR	63	Croatian	Croatia	45.5	15.6	No	No	No	Yes	Yes	No	(37)
EUR	28	Croatian	Croatia	45.1	14.6	No	No	No	Yes	Yes	No	(38)
EUR	23	Croatian	Croatia	45.1	14.6	No	No	No	No	No	Yes	(38)
EUR	28	Croatian	Croatia	45.1	14.6	No	No	No	Yes	Yes	Yes	(38)
EUR	102	Croatian	Croatia	45.0	14.5	No	No	No	Yes	Yes	Yes	(13)
EUR	104	Croatian	Croatia	43.1	16.3	No	No	No	Yes	Yes	No	(13)
EUR	139	Croatian	Croatia	45.2	15.5	No	No	No	No	No	Yes	(13)
EUR	150	Croatian	Croatia	45.5	15.6	Yes	Yes	No	No	No	No	(6)
EUR	202	Croatian	Croatia	45.8	16.0	Yes	Yes	No	No	No	Yes	(29)
EUR	5099	Czech	Czechia	49.8	15.5	Yes	Yes	Yes	No	No	Yes	(39)
EUR	103	Czech	Czechia	50.0	14.3	Yes	Yes	Yes	Yes	Yes	Yes	(6)
EUR	55	Denmark	Denmark	55.7	12.6	No	No	No	No	No	Yes	(40)
EUR	1305	Dutch	Netherlands	52.1	4.5	Yes	No	No	No	No	No	(39)
EUR	447	Dutch	Netherlands	52.0	7.0	No	No	No	No	No	Yes	(39)
EUR	234	French	France	50.4	3.1	No	No	No	No	No	Yes	(13)
EUR	224	French	France	48.0	0.0	No	No	No	Yes	Yes	No	(13)
EUR	1431	French	France	43.6	3.9	No	No	Yes	No	No	Yes	(29)
EUR	130	French	France	46.0	5.0	Yes	Yes	Yes	No	No	Yes	(39)
EUR	100	French	France	48.0	-2.0	No	No	Yes	No	No	Yes	(39)
EUR	174	German	Germany	51.5	7.0	No	No	No	Yes	Yes	No	(39)
EUR	111	German	Germany	50.8	8.8	No	No	No	Yes	Yes	Yes	(41)
EUR	8862	German	Germany	50.8	8.8	Yes	Yes	Yes	No	No	Yes	(42)
EUR	101	Greek-Cypriots	Greece	35.0	33.3	Yes	Yes	No	No	No	No	(13)
EUR	246	Greek	Greece	38.0	23.7	No	No	No	No	No	Yes	(43)
EUR	192	Greek	Greece	38.0	25.3	Yes	Yes	No	Yes	Yes	Yes	(13)

EUR	144	Greek	Greece	39.0	22.0	Yes	Yes	Yes	No	No	Yes	(18)
EUR	232	Greek	Greece	39.0	22.0	Yes	Yes	Yes	No	No	Yes	(29)
EUR	120	Greek	Greece	38.0	23.7	No	No	No	Yes	Yes	No	(39)
EUR	242	Greek	Greece	38.0	23.7	Yes	Yes	Yes	No	No	Yes	(39)
EUR	83	Greek	Greece	38.0	23.7	Yes	Yes	Yes	No	No	Yes	(39)
EUR	98	Greek	Greece	38.0	23.7	No	No	No	Yes	Yes	No	(44)
EUR	1000	Irish	Ireland	54.7	-6.7	Yes	Yes	Yes	No	No	Yes	(6)
EUR	1000	Irish	Ireland	54.7	-6.8	No	Yes	No	No	No	No	(45)
EUR	1000	Irish	Ireland	54.7	-6.8	No	No	Yes	No	No	No	(46)
EUR	1000	Irish	Ireland	54.7	-6.8	No	No	No	No	No	Yes	(47)
EUR	250	Irish	Ireland	53.3	-6.2	Yes	Yes	Yes	No	No	Yes	(39)
EUR	975	Italian	Italy	45.5	9.2	Yes	Yes	Yes	No	No	Yes	(48)
EUR	380	Italian	Italy	41.9	12.5	No	No	No	Yes	Yes	Yes	(39)
EUR	93	Italian	Italy	45.1	9.1	No	No	No	Yes	Yes	No	(13)
EUR	98	Italian	Italy	45.4	9.4	No	No	No	Yes	Yes	Yes	(13)
EUR	53	Italian	Italy	41.9	12.5	No	No	No	Yes	Yes	No	(49)
EUR	179	Italian	Italy	41.7	15.7	No	No	No	Yes	Yes	No	(50)
EUR	97	Italian	Italy	43.0	12.0	No	No	No	Yes	Yes	No	(39)
EUR	277	Italian	Italy	45.4	9.2	No	No	Yes	No	No	No	(51)
EUR	100	Italian	Italy	41.9	12.4	No	No	No	Yes	Yes	Yes	(39)
EUR	141	Italian	Italy	40.8	14.2	No	No	Yes	No	No	No	(51)
EUR	158	Macedonian	Macedonia	42.0	21.4	No	No	No	No	No	Yes	(52)
EUR	172	Macedonian	Macedonia	42.0	22.0	No	No	No	No	No	Yes	(53)
EUR	218	Macedonian	Macedonia	41.8	22.0	No	No	Yes	No	No	Yes	(18)
EUR	247	Macedonian	Macedonia	41.8	22.0	No	Yes	No	No	No	No	(18)
EUR	181	Norwegian	Norway	59.9	10.8	No	No	No	Yes	Yes	Yes	(54)
EUR	200	Polish	Poland	51.1	17.0	No	Yes	Yes	No	No	Yes	(55)
EUR	98	Polish	Poland	52.3	16.5	No	No	No	Yes	Yes	Yes	(13)
EUR	99	Polish	Poland	51.0	15.0	No	No	No	Yes	Yes	Yes	(13)

EUR	100	Pomaki	Bulgaria	41.1	24.6	No	No	No	Yes	Yes	Yes	(13)
EUR	59	Portuguese	Portugal	38.0	-28.0	Yes	Yes	No	No	No	Yes	(56)
EUR	43	Portuguese	Portugal	37.0	-25.1	Yes	Yes	No	No	No	Yes	(56)
EUR	130	Portuguese	Portugal	38.7	-27.3	No	Yes	No	Yes	Yes	Yes	(39)
EUR	50	Portuguese	Portugal	39.0	-8.0	Yes	Yes	No	No	No	Yes	(57)
EUR	111	Portuguese	Portugal	39.0	-9.0	No	No	No	Yes	Yes	No	(13)
EUR	173	Portuguese	Portugal	32.7	-17.0	No	No	No	No	No	Yes	(58)
EUR	185	Portuguese	Portugal	32.7	-17.0	Yes	Yes	No	No	No	Yes	(59)
EUR	46	Portuguese	Portugal	41.0	-8.0	Yes	Yes	No	No	No	Yes	(57)
EUR	49	Portuguese	Portugal	37.0	-8.0	Yes	Yes	No	No	No	Yes	(57)
EUR	99	Romanian	Romania	44.3	26.1	No	No	No	No	No	Yes	(13)
EUR	200	Russian	Russia	59.9	30.3	No	No	No	Yes	Yes	Yes	(60)
EUR	108	Russian	Russia	60.1	40.9	Yes	Yes	No	No	No	Yes	(29)
EUR	80	Sardinian	Italy	40.0	9.0	No	No	No	Yes	Yes	Yes	(13)
EUR	140	Slovenian	Slovenia	46.0	14.5	No	No	No	Yes	Yes	Yes	(61)
EUR	100	Slovenian	Slovenia	46.2	15.0	No	No	No	No	No	Yes	(39)
EUR	100	Slovenian	Slovenia	46.0	14.0	No	No	No	Yes	Yes	Yes	(6)
EUR	99	Spanish	Spain	37.4	-6.0	No	No	Yes	No	No	Yes	(39)
EUR	941	Spanish	Spain	41.4	2.2	No	No	No	No	No	Yes	(62)
EUR	125	Spanish	Spain	40.3	-3.4	No	No	No	No	No	Yes	(13)
EUR	100	Spanish	Spain	40.3	-3.4	No	No	No	Yes	Yes	Yes	(13)
EUR	173	Spanish	Spain	38.0	-1.1	No	No	No	Yes	Yes	Yes	(63)
EUR	95	Spanish	Spain	43.0	-4.0	No	No	No	No	No	Yes	(31)
EUR	83	Spanish	Spain	43.0	-3.0	No	No	No	No	No	Yes	(31)
EUR	88	Spanish	Spain	43.0	-3.0	No	No	No	No	No	Yes	(31)
EUR	278	Spanish	Spain	37.4	-6.0	No	No	Yes	No	No	No	(39)
EUR	90	Finns	Finland	60.2	25.1	Yes	Yes	Yes	No	No	No	(6)
EUR	150	Finns	Finland	60.1	25.0	No	No	No	No	No	Yes	(29)
EUR	150	Finns	Finland	64.0	26.0	No	No	No	No	No	Yes	(64)

EUR	154	Northern Sami	Sweden	67.0	18.5	Yes	Yes	No	Yes	Yes	Yes	(65)
EUR	130	Southern Sami	Sweden	60.9	14.7	Yes	Yes	No	Yes	Yes	Yes	(65)
SWA	101	Arab Druze	Israel	31.1	35.0	Yes	Yes	Yes	No	No	No	(6)
SWA	146	Arab	Jordan	31.6	36.3	No	No	No	Yes	Yes	No	(66)
SWA	94	Arab	Lebanon	33.9	35.5	No	No	No	No	No	Yes	(13)
SWA	191	Arab	Lebanon	33.9	35.5	No	No	No	No	No	Yes	(67)
SWA	61	Arab	Lebanon	33.6	35.8	No	No	No	No	No	Yes	(13)
SWA	82	Arab	Lebanon	33.9	35.5	No	No	No	No	No	Yes	(13)
SWA	119	Arab	Oman	21.0	57.0	Yes	Yes	No	No	No	No	(6)
SWA	118	Arab	Oman	22.0	56.0	No	Yes	No	No	No	No	(68)
SWA	50	Arab	Saudi Arabia	24.7	46.7	No	No	No	No	No	Yes	(69)
SWA	213	Arab	Saudi Arabia	27.5	41.7	Yes	Yes	Yes	No	No	Yes	(39)
SWA	158	Arab	Saudi Arabia	24.6	46.7	Yes	Yes	Yes	No	No	Yes	(70)
SWA	40	Ashkenazi-Jews	Palestine	31.5	35.1	No	Yes	No	No	No	Yes	(13)
SWA	109	Jews	Israel	32.0	34.5	Yes	Yes	Yes	No	No	No	(6)
SWA	258	Libanese	Libanon	33.5	35.3	No	No	No	No	No	Yes	(13)
SWA	40	Jews	Libya	31.5	35.1	No	Yes	No	No	No	Yes	(13)
SWA	40	Jews	Morocco	31.5	35.1	No	Yes	No	No	No	Yes	(13)
SWA	245	Turks	Turkey	41.0	28.6	No	No	No	No	No	Yes	(6)
SWA	69	Turkuman	Iran	36.8	54.4	Yes	Yes	No	No	No	Yes	(71)
SWA	37	Munda	India	23.4	85.3	Yes	Yes	No	No	No	Yes	(18)
SWA	80	Georgian Svan	Georgia	42.9	43.0	Yes	Yes	No	Yes	Yes	Yes	(72)
SWA	109	Georgian	Georgia	41.7	45.0	Yes	Yes	Yes	No	No	No	(6)
SWA	105	Georgian	Geogia	41.7	44.9	Yes	Yes	Yes	No	No	No	(6)

SWA	48	Tamil	India	11.0	79.0	Yes	Yes	Yes	No	No	No	(6)
SWA	100	Armenian	Armenia	40.2	44.5	Yes	No	No	No	No	Yes	(73)
SWA	100	Azeri	Iran	36.6	48.4	No	No	No	Yes	Yes	Yes	(74)
SWA	100	Baloch	Iran	29.5	60.9	Yes	Yes	Yes	Yes	Yes	No	(74)
SWA	66	Baloch	Pakistan	30.5	66.5	Yes	No	No	No	No	No	(75)
SWA	104	Brahui	Pakistan	30.0	67.0	Yes	No	No	No	No	No	(75)
SWA	92	Burusho	Pakistan	36.5	74.0	Yes	No	No	No	No	No	(75)
SWA	100	Druzes	Israel	32.0	34.5	Yes	Yes	Yes	No	No	No	(6)
SWA	46	Hunza-Burushaski	Pakistan	36.2	74.4	No	Yes	Yes	No	No	No	(13)
SWA	111	Indian	India	17.1	78.1	Yes	No	No	No	No	No	(6)
SWA	90	Indian	India	28.6	77.2	No	Yes	Yes	No	No	No	(76)
SWA	104	Indian	India	17.5	78.5	Yes	Yes	No	No	No	Yes	(6)
SWA	50	Indian	India	20.9	74.8	Yes	Yes	Yes	No	No	No	(77)
SWA	123	Indian	India	26.4	80.2	No	No	No	Yes	Yes	No	(39)
SWA	91	Indian	India	19.0	72.8	Yes	Yes	Yes	No	No	Yes	(78)
SWA	56	Indian	India	28.6	77.2	Yes	Yes	Yes	No	No	No	(6)
SWA	71	Indian	India	28.6	77.2	Yes	Yes	Yes	No	No	No	(6)
SWA	155	Indian	India	26.8	80.9	No	No	No	Yes	Yes	No	(79)
SWA	63	Indian	India	27.3	89.0	No	No	No	Yes	Yes	No	(79)
SWA	98	Indian	India	22.6	88.3	No	No	No	Yes	Yes	No	(79)
SWA	196	Indian	India	26.8	80.9	No	No	No	Yes	Yes	No	(79)
SWA	190	Indian	India	26.8	80.9	No	No	No	Yes	Yes	No	(79)
SWA	188	Indian	India	26.8	80.9	No	No	No	Yes	Yes	No	(79)
SWA	198	Indian	India	26.8	80.9	No	No	No	Yes	Yes	No	(79)
SWA	202	Indian	India	26.8	80.9	No	No	No	Yes	Yes	No	(80)
SWA	50	Indian	India	19.0	76.0	No	Yes	Yes	No	No	No	(81)
SWA	58	Iran	Iran	35.7	51.4	No	No	No	Yes	Yes	No	(82)
SWA	100	Iranian	Iran	35.7	51.3	No	No	No	No	No	Yes	(83)

SWA	120	Iranian	Iran	35.7	51.4	No	No	No	No	No	Yes	(84)
SWA	69	Kalash	Pakistan	36.0	71.5	Yes	No	No	No	No	No	(75)
SWA	190	Kayastha	India	26.8	80.9	No	No	No	Yes	Yes	No	(79)
SWA	31	Kurd	Georgia	41.7	45.0	Yes	Yes	Yes	No	No	No	(6)
SWA	100	Kurd	Iran	35.3	47.0	No	No	No	Yes	Yes	Yes	(74)
SWA	29	Kurdish	Iran	41.7	44.9	Yes	Yes	Yes	No	No	No	(6)
SWA	73	Parsi	Iran	27.6	52.5	No	No	No	Yes	Yes	Yes	(39)
SWA	36	Pathan	Pakistan	33.4	73.1	Yes	Yes	Yes	No	No	No	(13)
SWA	42	Punjabi	Pakistan	28.4	77.1	No	No	No	Yes	Yes	No	(13)
SWA	39	Sindhi	India	24.5	67.0	Yes	Yes	Yes	No	No	No	(13)
SWA	61	Tamil	India	8.0	77.0	Yes	Yes	Yes	No	No	No	(85)
SWA	65	Zoroastrian	Iran	31.9	54.4	No	No	No	Yes	Yes	Yes	(39)
NEA	117	Japanese	Japan	35.7	139.8	Yes	Yes	Yes	No	No	No	(86)
NEA	18604	Japanese	Japan	35.7	139.8	Yes	Yes	Yes	No	No	Yes	(87)
NEA	371	Japanese	Japan	36.0	137.0	Yes	Yes	Yes	No	No	Yes	(88)
NEA	560	Japanese	Japan	35.7	139.7	No	No	Yes	No	No	No	(89)
NEA	525	Japanese	Japan	33.6	130.4	No	No	No	Yes	Yes	Yes	(90)
NEA	71	Japanese	Japan	43.1	141.4	No	No	No	No	No	Yes	(91)
NEA	195	Japanese	Japan	34.7	135.5	No	No	No	No	No	Yes	(13)
NEA	32	Japanese	Japan	35.0	134.9	No	No	No	Yes	Yes	Yes	(39)
NEA	165	Japanese	Japan	34.8	135.7	No	No	No	No	No	Yes	(92)
NEA	525	Japanese	Japan	33.6	130.4	No	No	No	No	No	Yes	(93)
NEA	129	Japanese	Japan	34.7	135.5	No	No	No	No	No	Yes	(94)
NEA	62	Japanese	Japan	35.7	139.8	No	No	No	No	No	Yes	(95)
NEA	125	Japanese	Japan	33.9	130.4	No	No	No	No	No	Yes	(96)
NEA	1018	Japanese	Japan	35.7	139.8	Yes	Yes	Yes	No	No	Yes	(97)
NEA	201	Korean	China	45.8	126.6	No	No	No	No	No	Yes	(13)
NEA	4128	Korean	South Korea	37.5	127.0	Yes	Yes	No	No	No	Yes	(98)
NEA	485	Korean	South Korea	37.6	127.0	Yes	Yes	Yes	No	No	Yes	(99)

NEA	207	Korean	South Korea	37.6	127.0	No	No	No	Yes	Yes	Yes	(100)
NEA	211	Korean	South Korea	37.6	127.0	No	No	No	No	No	Yes	(101)
NEA	485	Korean	South Korea	37.5	127.0	Yes	Yes	Yes	No	No	No	(13)
NEA	800	Korean	South Korea	37.5	127.0	No	No	No	No	No	Yes	(102)
NEA	324	Korean	South Korea	37.0	126.0	No	No	No	Yes	Yes	No	(39)
NEA	207	Korean	South Korea	37.0	126.0	No	No	No	Yes	Yes	Yes	(103)
NEA	149	Korean	South Korea	36.8	129.3	No	No	No	No	No	Yes	(104)
NEA	105	Ryukyuan	Japan	26.5	128.0	Yes	Yes	Yes	No	No	No	(6)
NEA	197	Ryukyuan	Japan	26.5	128.0	No	No	No	No	No	Yes	(105)
NEA	143	Ryukyuan	Japan	26.1	127.1	Yes	No	No	No	No	No	(40)
NEA	141	Mongolian Buryat	Mongolia	47.1	118.1	Yes	No	No	No	No	No	(6)
NEA	140	Mongolian Buryat	Russia	52.5	103.9	Yes	No	No	No	No	No	(6)
NEA	25	Mongolian Buryat	Russia	54.9	99.0	No	No	No	Yes	Yes	Yes	(106)
NEA	100	Mongolian Khalkha	Mongolia	47.0	108.0	No	No	No	No	No	Yes	(107)
NEA	202	Mongolian Khalkha	Mongolia	47.9	106.9	No	No	No	No	No	Yes	(13)
NEA	41	Mongolian Khalkha	Mongolia	47.9	106.9	No	No	No	Yes	Yes	No	(108)
NEA	52	Mongolian Oold	Mongolia	47.0	95.0	No	No	No	No	No	Yes	(107)
NEA	144	Mongolian Tsaatan	Mongolia	51.0	101.0	No	No	No	No	No	Yes	(107)
NEA	102	Mongolian	China	40.8	111.6	Yes	Yes	Yes	No	No	No	(109)
NEA	41	Mongolian	Mongolia	47.9	106.9	No	No	No	Yes	Yes	No	(108)
NEA	203	Mongolian	Mongolia	47.5	106.5	No	No	No	No	No	Yes	(13)
NEA	117	Tu	China	36.8	101.9	Yes	Yes	Yes	No	No	Yes	(110)
NEA	94	Ewenki	China	49.3	119.4	No	No	No	No	No	Yes	(111)

NEA	25	Ewenki	Russia	48.5	135.1	No	No	No	Yes	Yes	Yes	(106)
NEA	35	Ewenki	Russia	60.0	98.0	No	No	No	No	No	Yes	(112)
NEA	47	Manchu	China	45.8	126.7	No	No	No	Yes	Yes	No	(113)
NEA	172	Manchu	China	45.8	126.6	No	No	No	No	No	Yes	(13)
NEA	172	Manchu	China	45.2	126.1	No	No	No	No	No	Yes	(13)
NEA	35	Negidal	Russia	51.0	131.1	No	No	No	No	No	Yes	(106)
NEA	25	Udegey	Russia	43.1	131.9	No	No	No	No	No	Yes	(112)
NEA	73	Ulchi	Russia	51.9	140.4	No	No	No	Yes	Yes	Yes	(106)
NEA	42	Kazakh	China	43.8	87.6	No	No	No	Yes	Yes	No	(114)
NEA	41	Kazakh	China	43.9	87.7	No	No	No	Yes	Yes	No	(115)
NEA	39	Kazakh	Kazakhstan	48.0	68.0	No	No	No	Yes	Yes	No	(13)
NEA	43	Tofalar	Russia	52.3	104.3	No	No	No	Yes	Yes	Yes	(106)
NEA	22	Tuvinian Todja	Russia	51.5	95.1	No	No	No	Yes	Yes	Yes	(106)
NEA	190	Tuvinian	Russia	51.7	94.4	No	No	No	Yes	Yes	Yes	(116)
NEA	44	Tuvinian	Russia	51.5	95.1	No	No	No	Yes	Yes	Yes	(106)
NEA	169	Tuvinian	Russia	51.5	95.1	Yes	Yes	Yes	No	No	Yes	(117)
NEA	174	Tuvinian	Russia	51.5	95.1	Yes	Yes	Yes	No	No	No	(6)
NEA	57	Uyghur	China	43.8	87.6	No	No	No	No	No	Yes	(118)
NEA	54	Uyghur	China	43.8	87.7	No	No	No	Yes	Yes	No	(115)
NEA	92	Uyghur	China	41.7	83.0	No	No	No	Yes	Yes	Yes	(119)
NEA	105	Uyghur	China	43.9	81.3	Yes	Yes	No	No	No	Yes	(120)
NEA	102	Yugur	China	38.8	99.6	Yes	Yes	Yes	No	No	Yes	(110)
NEA	59	Chukchi	Russia	66.0	-172.0	No	No	No	No	No	Yes	(112)
NEA	92	Koryak	Russia	60.3	165.8	No	No	No	No	No	Yes	(112)
NEA	85	Aleut	Russia	55.0	166.3	Yes	Yes	Yes	No	No	Yes	(121)
NEA	80	Eskimo	Russia	66.0	-172.0	No	No	No	No	No	Yes	(112)
NEA	70	Eskimo	Russia	66.0	-172.0	No	No	No	No	No	Yes	(122)
NEA	50	Ainu	Japan	42.2	142.8	No	No	No	No	No	Yes	(123)

NEA	50	Ainu	Japan	42.2	142.8	Yes	Yes	No	No	No	No	(124)
NEA	17	Ket	Russia	59.2	88.6	No	No	No	Yes	Yes	Yes	(125)
NEA	22	Ket	Russia	60.0	93.1	No	No	No	No	No	Yes	(112)
NEA	32	Nivkhi	Russia	51.0	143.0	No	No	No	No	No	Yes	(112)
NEA	53	Nivkhi	Russia	51.0	143.0	No	No	No	No	No	Yes	(126)
NEA	273	Han	China	31.9	117.3	No	No	No	Yes	Yes	No	(127)
NEA	618	Han	China	37.9	116.4	Yes	Yes	No	No	No	No	(128)
NEA	217	Han	China	39.9	116.4	No	No	No	No	No	Yes	(129)
NEA	67	Han	China	39.9	116.4	Yes	No	No	No	No	No	(130)
NEA	67	Han	China	37.0	113.0	No	No	Yes	No	No	No	(40)
NEA	112	Han	China	39.7	115.9	No	No	No	Yes	Yes	No	(131)
NEA	3874	Han	China	34.8	113.6	Yes	Yes	No	No	No	Yes	(132)
NEA	1013	Han	China	30.6	114.5	No	No	No	No	No	Yes	(133)
NEA	3238	Han	China	32.9	119.8	Yes	Yes	No	No	No	Yes	(134)
NEA	334	Han	China	32.9	119.8	Yes	Yes	No	No	No	Yes	(135)
NEA	1036	Han	China	35.1	109.7	Yes	Yes	No	No	No	Yes	(136)
NEA	865	Han	China	36.6	117.0	Yes	Yes	No	No	No	Yes	(137)
NEA	150	Han	China	36.6	117.0	No	No	Yes	No	No	No	(138)
NEA	106	Han	China	41.8	123.4	Yes	Yes	Yes	No	No	No	(139)
NEA	94	Han	China	41.8	123.4	No	No	No	Yes	Yes	Yes	(140)
NEA	70	Han	China	39.1	117.2	No	No	Yes	No	No	No	(141)
NEA	129	Han	China	25.1	102.7	No	No	No	No	No	Yes	(142)
NEA	58	Lachung	India	28.0	88.7	No	No	No	Yes	Yes	Yes	(79)
NEA	47	Monba	China	29.2	95.3	Yes	Yes	No	No	No	Yes	(143)
NEA	96	Tibetan	China	29.7	91.1	No	No	No	Yes	Yes	No	(131)
NEA	49	Tibetan	China	36.6	101.8	No	No	No	Yes	Yes	No	(144)
NEA	158	Tibetan	China	29.7	91.1	Yes	Yes	Yes	No	No	No	(145)
NEA	190	Tujia	China	30.2	110.6	Yes	Yes	No	No	No	No	(146)
NEA	68	Mansi	Russia	61.0	69.0	No	No	No	Yes	Yes	Yes	(106)

NEA	24	Nganasan	Russia	69.4	86.2	No	No	No	Yes	Yes	Yes	(125)
SEA	116	Bulang	China	21.9	100.5	Yes	Yes	Yes	No	No	Yes	(147)
SEA	49	Khmer	Cambodia	11.0	98.0	No	No	No	Yes	Yes	Yes	(148)
SEA	137	Kinh	China	21.7	108.3	No	No	No	No	No	Yes	(149)
SEA	170	Kinh	Vietnam	21.0	105.9	Yes	Yes	Yes	No	No	Yes	(150)
SEA	137	Kinh	Vietnam	21.1	106.0	No	Yes	No	No	No	No	Personal communication
SEA	140	Kinh	Vietnam	21.1	106.0	Yes	No	No	No	No	Yes	Personal communication
SEA	103	Kinh	Vietnam	21.0	105.8	No	No	No	No	No	Yes	(151)
SEA	107	Muong	Vietnam	20.5	105.0	Yes	Yes	No	No	No	No	Personal communication
SEA	83	Muong	Vietnam	20.8	105.3	No	No	No	No	No	Yes	(6)
SEA	119	Wa	China	23.0	99.3	Yes	Yes	No	No	No	Yes	(152)
SEA	115	Wa	China	23.0	99.3	No	No	Yes	No	No	No	(153)
SEA	85	Miao	China	26.6	107.2	Yes	Yes	Yes	No	No	No	(154)
SEA	79	Miao	China	26.6	107.2	No	No	No	No	No	Yes	(155)
SEA	57	Yao	China	22.7	103.2	No	No	No	No	No	Yes	(155)
SEA	101	Han	China	24.0	105.0	Yes	Yes	Yes	No	No	Yes	(156)
SEA	281	Han	China	23.6	113.0	No	No	Yes	No	No	No	(6)
SEA	102	Han	China	23.2	113.2	No	No	No	Yes	Yes	Yes	(157)
SEA	144	Han	China	23.7	113.0	Yes	Yes	Yes	No	No	Yes	(158)
SEA	281	Han	China	23.2	113.3	Yes	Yes	No	No	No	No	(6)
SEA	102	Han	China	23.1	113.2	Yes	Yes	Yes	No	No	No	(13)
SEA	264	Han	China	23.1	113.2	Yes	Yes	Yes	Yes	Yes	Yes	(159)
SEA	569	Han	China	22.3	114.2	No	Yes	No	No	No	No	(39)
SEA	572	Han	China	22.2	114.0	Yes	Yes	No	No	No	No	(6)
SEA	55	Han	China	24.8	121.0	Yes	Yes	Yes	No	No	Yes	Personal communication

SEA	63	Han	China	28.3	113.0	No	No	No	Yes	Yes	No	(160)
SEA	99	Han	China	24.6	116.1	Yes	Yes	Yes	No	No	No	(161)
SEA	89	Han	China	31.2	121.4	No	No	No	Yes	Yes	No	(162)
SEA	102	Han	China	25.1	121.6	Yes	Yes	Yes	No	No	Yes	Personal communication
SEA	1381	Han	China	29.4	113.1	No	No	No	No	No	Yes	(163)
SEA	2504	Han	China	28.3	113.0	No	No	Yes	No	No	No	(164)
SEA	1100	Han	China	29.0	121.0	Yes	Yes	No	No	No	Yes	(165)
SEA	8333	Han	China	29.0	121.0	Yes	Yes	No	No	No	Yes	(166)
SEA	128	Bai	China	26.5	99.9	No	No	No	No	No	Yes	(167)
SEA	70	Bai	China	25.1	102.8	No	No	No	No	No	Yes	(168)
SEA	70	Drung	China	24.5	101.5	No	No	No	No	No	Yes	(6)
SEA	150	Hani	China	21.8	100.9	Yes	Yes	Yes	No	No	Yes	(147)
SEA	109	Jinuo	China	22.0	100.8	Yes	Yes	No	No	No	Yes	(152)
SEA	99	Jinuo	China	22.0	100.8	No	No	Yes	No	No	No	(153)
SEA	55	Lahu	China	22.5	99.9	No	No	No	No	No	Yes	(169)
SEA	70	Lahu	China	24.5	101.5	No	No	No	No	No	Yes	(6)
SEA	111	Lisu	China	26.0	98.8	Yes	Yes	Yes	No	No	Yes	(170)
SEA	94	Naxi	China	26.9	100.2	No	No	No	No	No	Yes	(171)
SEA	118	Naxi	China	26.9	100.2	No	No	No	No	No	Yes	(172)
SEA	107	Nu	China	26.0	98.9	Yes	Yes	Yes	No	No	Yes	(170)
SEA	67	Buyi	China	26.0	106.0	No	No	No	Yes	Yes	Yes	(173)
SEA	109	Buyi	China	25.4	107.9	Yes	Yes	Yes	No	No	No	(154)
SEA	96	Dai Lue	Thailand	13.8	100.5	No	No	No	Yes	Yes	Yes	(174)
SEA	73	Dai	China	22.0	100.5	No	No	No	Yes	Yes	Yes	(175)
SEA	124	Dai	China	22.0	100.8	Yes	Yes	Yes	No	No	Yes	(147)
SEA	96	Dai	Thailand	18.0	99.0	No	No	No	No	No	Yes	(174)
SEA	94	Li	China	19.2	109.4	No	No	No	Yes	Yes	No	(176)
SEA	108	Maonan	China	24.8	108.2	Yes	Yes	No	No	No	Yes	(177)

SEA	85	Maonan	China	24.8	108.2	No	No	Yes	No	No	No	(153)
SEA	153	Shui	China	25.4	107.8	Yes	Yes	Yes	No	No	No	(154)
SEA	140	Thai	Thailand	13.8	100.5	No	No	No	No	No	Yes	(174)
SEA	49	Thai	Thailand	13.8	100.5	No	Yes	No	No	No	No	(178)
SEA	97	Thai	Thailand	16.5	99.5	No	No	No	Yes	Yes	No	(179)
SEA	99	Thai	Thailand	13.8	100.5	Yes	Yes	No	No	No	No	(6)
SEA	142	Thai	Thailand	14.0	98.0	No	No	Yes	Yes	Yes	Yes	(39)
SEA	105	Thai	Thailand	15.2	104.9	No	No	No	Yes	Yes	Yes	(180)
SEA	143	Zhuang	China	24.5	107.4	No	No	No	Yes	Yes	No	(181)
SEA	140	Zhuang	China	22.8	108.3	No	No	No	Yes	Yes	No	(182)
SEA	104	Zhuang	China	23.1	107.1	Yes	Yes	Yes	No	No	Yes	(183)
OCE	78	Rarotonga	Cook Islands	-21.2	-159.8	No	No	No	Yes	Yes	No	(184)
OCE	50	Cook Islands	Cook Islands	-21.2	-159.8	No	No	No	No	No	Yes	(185)
OCE	48	Dusun	Malaysia	5.2	117.0	No	No	No	No	No	Yes	(186)
OCE	57	East-Timorese	East Timor	-9.0	125.0	Yes	No	No	Yes	Yes	Yes	(6)
OCE	57	Fiji	Fiji	-17.8	178.0	No	No	No	Yes	Yes	Yes	(184)
OCE	94	Filipino	Philippines	14.6	121.0	Yes	Yes	Yes	No	No	Yes	(6)
OCE	34	Filipino	Philippines	14.6	121.0	No	No	No	No	No	Yes	(187)
OCE	62	Javanese	Indonesia	-7.8	110.4	No	No	No	Yes	Yes	No	(184)
OCE	36	Javanese	Indonesia	-6.1	106.2	Yes	Yes	No	No	No	Yes	(188)
OCE	49	Indonesia Nusa	Indonesia	-10.2	123.6	No	No	No	No	No	Yes	(187)
OCE	236	Indonesian	Indonesia	-7.5	111.2	Yes	Yes	No	No	No	Yes	(189)
OCE	25	Indonesian	Indonesia	-2.0	127.0	Yes	No	No	Yes	Yes	Yes	(6)
OCE	24	Indonesian	Indonesia	-2.0	128.0	No	No	No	No	No	Yes	(187)
OCE	201	Indonesian	Indonesia	-6.1	106.2	Yes	Yes	No	No	No	Yes	(188)
OCE	49	Indonesian	Indonesia	-3.0	120.0	Yes	Yes	Yes	No	No	No	(6)

OCE	50	Ivatan	Philippines	20.4	121.9	Yes	Yes	Yes	No	No	Yes	(6)
OCE	62	Kiribati	Kiribati	-1.5	173.0	No	No	No	Yes	Yes	No	(184)
OCE	101	Malay	Malaysia	3.0	103.0	Yes	Yes	Yes	No	No	Yes	(6)
OCE	74	Malay	Malaysia	3.1	101.7	No	No	No	No	No	Yes	(187)
OCE	25	Jehai	Malaysia	5.4	101.1	No	Yes	No	No	No	Yes	(190)
OCE	57	Kadazan	Malaysia	5.2	117.0	No	No	No	No	No	Yes	(191)
OCE	25	Kensiu	Malaysia	5.7	100.9	Yes	Yes	No	No	No	Yes	(190)
OCE	25	Sarawak Bau Bidayuh	Malaysia	1.4	110.2	Yes	Yes	No	No	No	Yes	(190)
OCE	50	Sarawak Bidayuh	Malaysia	1.4	110.2	No	No	No	No	No	Yes	(191)
OCE	51	Sarawak Iban	Malaysia	2.3	111.8	No	No	No	No	No	Yes	(191)
OCE	25	Temuan	Malaysia	2.9	102.1	Yes	Yes	No	No	No	Yes	(190)
OCE	200	Maori	New Zealand	-41.3	174.8	No	No	No	No	No	Yes	(192)
OCE	67	Nauru	Nauru	-1.0	166.0	No	No	No	Yes	Yes	No	(184)
OCE	42	New Caledonia	New Caledonia	-21.0	165.0	Yes	Yes	Yes	Yes	Yes	Yes	(193)
OCE	70	Niue	Niue	-19.1	-169.9	No	No	No	Yes	Yes	No	(184)
OCE	51	Samoan and Tokelau	Western Samoa	-9.2	-171.8	No	No	No	Yes	Yes	No	(184)
OCE	51	Samoan	East Samoa	-14.3	-170.7	Yes	Yes	Yes	No	No	No	(6)
OCE	50	Samoan	Samoa	14.2	-171.0	Yes	Yes	Yes	No	No	No	(6)
OCE	29	Samoan	Samoa	-13.8	-171.8	No	No	No	No	No	Yes	(187)
OCE	50	Samoan	Samoa	-13.8	-171.8	No	No	No	No	No	Yes	(185)
OCE	98	Taiwanese Aborigine Ami	China	23.4	121.5	Yes	Yes	Yes	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Ami	China	23.4	121.5	No	No	No	No	No	Yes	(6)

OCE	106	Taiwanese Aborigine Atayal	China	24.5	121.4	Yes	Yes	Yes	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Atayal	China	24.5	121.4	No	No	No	No	No	Yes	(6)
OCE	101	Taiwanese Aborigine Bunun	China	23.8	121.0	Yes	Yes	Yes	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Bunun	China	23.8	121.0	No	No	No	No	No	Yes	(6)
OCE	51	Taiwanese Aborigine Paiwan	China	22.5	120.8	Yes	Yes	Yes	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Paiwan	China	22.5	120.8	No	No	No	No	No	Yes	(6)
OCE	55	Taiwanese Aborigine Pazeh	China	24.0	120.4	Yes	Yes	Yes	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Puyuma	China	23.2	121.3	Yes	Yes	Yes	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Puyuma	China	23.2	121.3	No	No	No	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Rukai	China	22.8	120.9	No	No	No	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Rukai	China	22.8	120.9	Yes	Yes	Yes	No	No	Yes	(6)
OCE	51	Taiwanese Aborigine	China	24.6	121.0	Yes	Yes	Yes	No	No	Yes	(6)

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OCE	50	Taiwanese Aborigine Saisiat	China	24.6	121.0	No	No	No	No	No	Yes	(6)
OCE	51	Taiwanese Aborigine Siraya	China	23.1	120.0	Yes	Yes	Yes	No	No	Yes	(6)
OCE	55	Taiwanese Aborigine Taroko	China	24.2	121.6	Yes	Yes	Yes	No	No	Yes	(6)
OCE	30	Taiwanese Aborigine Thao	China	23.9	120.9	Yes	Yes	Yes	No	No	Yes	(6)
OCE	51	Taiwanese Aborigine Tsou	China	23.5	120.7	Yes	Yes	Yes	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Tsou	China	23.5	120.7	No	No	No	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Yami	China	22.1	121.5	No	No	No	No	No	Yes	(6)
OCE	50	Taiwanese Aborigine Yami	China	22.1	121.5	Yes	Yes	Yes	No	No	Yes	(6)
OCE	50	Tokelau	Tokelau	-9.2	-171.8	No	No	No	No	No	Yes	(185)
OCE	50	Tonga	Tonga	-21.1	-175.2	No	No	No	No	No	Yes	(185)
OCE	63	Papuan Abam	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	39	Papuan Abelam	Papua New Guinea	-3.8	143.0	Yes	Yes	Yes	No	No	No	(193)
OCE	59	Papuan Dorogori	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	57	Papuan	Papua New	-6.1	145.4	Yes	Yes	Yes	No	No	No	(184)

		Goroka Asaro	Guinea									
OCE	57	Papuan Goroka Asaro	Papua New Guinea	-6.1	145.4	No	No	No	Yes	Yes	Yes	(193)
OCE	55	Papuan Haruai	Papua New Guinea	-5.1	144.2	Yes	Yes	No	No	No	No	(193)
OCE	75	Papuan Highlander	Papua New Guinea	-5.0	145.0	Yes	Yes	No	Yes	Yes	Yes	(6)
OCE	79	Papuan Iamega	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	65	Papuan Kapal	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	66	Papuan Keapara	Papua New Guinea	-10.1	147.8	No	Yes	Yes	No	No	No	(193)
OCE	46	Papuan Kuru	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	48	Papuan Lowlander	Papua New Guinea	-10.0	147.0	No	No	No	Yes	Yes	No	(6)
OCE	79	Papuan Lowlander	Papua New Guinea	-5.0	150.0	Yes	No	No	No	No	Yes	(6)
OCE	80	Papuan Pawaia	Papua New Guinea	-7.2	145.3	Yes	Yes	Yes	No	No	No	(193)
OCE	43	Papuan Podare	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	26	Papuan Roro	Papua New Guinea	-8.6	146.4	No	No	No	No	No	Yes	(13)
OCE	50	Papuan Rual	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	60	Papuan Tolai (Rabaul)	Papua New Guinea	-4.2	152.2	Yes	Yes	Yes	Yes	Yes	Yes	(193)
OCE	90	Papuan Ume	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	55	Papuan	Papua New	-8.9	143.2	No	No	No	No	No	Yes	(194)

		Wipim	Guinea									
OCE	26	Papuan Woigi	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	51	Papuan Wonie	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	92	Papuan Wosera	Papua New Guinea	-3.8	143.0	No	No	No	No	No	Yes	(187)
OCE	34	Papuan Wuroi	Papua New Guinea	-8.9	143.2	No	No	No	No	No	Yes	(194)
OCE	94	Papuan	Papua New Guinea	-6.2	143.3	No	No	No	No	No	Yes	(187)
OCE	48	Papuan	Papua New Guinea	-9.5	147.1	No	No	No	No	No	Yes	(187)
AUS	103	Aborigine	Australia	-10.7	142.5	Yes	Yes	Yes	Yes	Yes	Yes	(13)
AUS	75	Aborigine	Australia	-14.0	136.6	Yes	Yes	Yes	No	No	No	(13)
AUS	41	Aborigine	Australia	-15.8	128.7	Yes	Yes	Yes	Yes	Yes	Yes	(13)
AUS	191	Aborigine	Australia	-22.2	131.8	Yes	Yes	Yes	No	No	Yes	(13)
AUS	100	Aborigine	Australia	-13.0	143.0	Yes	Yes	Yes	Yes	Yes	Yes	(6)
AUS	73	Aborigine	Australia	-14.0	137.0	Yes	Yes	Yes	No	No	No	(6)
AUS	28	Aborigine	Australia	-17.0	127.0	Yes	Yes	Yes	Yes	Yes	Yes	(6)
AUS	190	Aborigine	Australia	-24.0	132.0	No	No	No	No	No	Yes	(13)
AUS	191	Aborigine	Australia	-24.0	132.0	Yes	Yes	Yes	No	No	No	(6)
NAM	62	Athabaskan	Canada	54.3	-127.0	No	No	No	Yes	Yes	Yes	(195)
NAM	1376	Aleut	USA	64.0	-150.0	Yes	Yes	Yes	No	No	Yes	(196)
NAM	492	Amerindian	USA	32.7	-114.5	Yes	Yes	Yes	Yes	Yes	Yes	(197)
NAM	100	Pima	USA	33.0	-113.0	Yes	Yes	No	No	No	No	(6)
NAM	26	Penutian	Canada	53.9	-122.8	No	No	No	No	No	Yes	(195)
NAM	40	Canoncito	USA	36.1	-112.0	No	No	No	Yes	Yes	Yes	(6)
NAM	162	Lacandon	Mexico	16.7	-91.0	No	No	No	Yes	Yes	Yes	(6)
NAM	163	Mayan	Mexico	16.8	-91.1	No	No	No	Yes	Yes	Yes	(6)
NAM	89	Mazatecan	Mexico	18.0	-97.0	No	No	No	No	No	Yes	(39)

NAM	163	Mexican	Mexico	19.5	-99.0	No	No	No	Yes	Yes	No	(13)
NAM	204	Mexican	Mexico	19.4	-99.0	Yes	Yes	No	Yes	Yes	Yes	(6)
NAM	103	Mixteca-Alta	Mexico	17.0	-97.0	No	No	No	Yes	Yes	Yes	(13)
NAM	42	Navajo	USA	34.1	-107.0	Yes	Yes	Yes	Yes	Yes	Yes	(6)
NAM	187	Native American	USA	30.0	-95.0	Yes	Yes	Yes	No	No	No	(39)
NAM	55	Oaxaca Mixe	Mexico	16.9	-95.2	Yes	Yes	Yes	Yes	Yes	Yes	(198)
NAM	103	Oaxaca Mixtec	Mexico	17.2	-97.5	Yes	Yes	Yes	Yes	Yes	Yes	(198)
NAM	86	Pima	Mexico	33.0	-113.0	Yes	Yes	No	No	No	No	(6)
NAM	83	Seri	Mexico	29.0	-112.3	No	No	No	Yes	Yes	Yes	(13)
NAM	33	Seri	Mexico	29.0	-112.0	Yes	Yes	No	Yes	Yes	No	(6)
NAM	34	Seri	Mexico	28.9	-112.6	No	Yes	No	Yes	Yes	No	(6)
NAM	95	Sioux	USA	43.6	-97.0	No	No	No	Yes	Yes	Yes	(6)
NAM	190	Sioux	USA	44.5	-100.0	Yes	Yes	Yes	No	No	Yes	(199)
NAM	101	Sioux	USA	45.0	-100.0	No	No	No	Yes	Yes	Yes	(6)
NAM	44	Tarahumara	Mexico	27.5	-107.8	Yes	Yes	Yes	No	No	Yes	(200)
NAM	78	Zapotec	Mexico	17.0	-96.3	No	No	No	Yes	Yes	Yes	(13)
NAM	90	Zapotec	Mexico	16.6	-96.7	Yes	Yes	Yes	Yes	Yes	Yes	(198)
NAM	50	Zuni	USA	35.0	-107.0	No	No	No	Yes	Yes	Yes	(6)
NAM	51	Zuni	USA	35.1	-108.2	No	No	No	Yes	Yes	Yes	(6)
NAM	149	Yupik	USA	60.0	-160.0	Yes	Yes	Yes	Yes	Yes	Yes	(6)
NAM	252	Yupik	USA	60.8	-161.4	Yes	No	Yes	No	No	Yes	(201)
SAM	87	Ache	Paraguay	-23.5	-55.8	No	No	No	Yes	Yes	Yes	(202)
SAM	135	Eastern Toba	Argentina	-26.2	-58.2	No	No	No	No	No	Yes	(203)
SAM	135	Eastern Toba	Argentina	-26.2	-58.2	Yes	Yes	No	No	No	No	(204)
SAM	19	Western Toba Pilaga	Argentina	-27.4	-59.0	No	No	No	No	No	Yes	(203)

SAM	19	Western Toba Pilaga	Argentina	-27.4	-59.0	Yes	Yes	No	No	No	No	(204)
SAM	48	Mapuche	Argentina	-39.0	-68.2	No	No	No	Yes	Yes	No	(39)
SAM	49	Wichi	Argentina	-27.4	-59.0	Yes	Yes	No	No	No	Yes	(204)
SAM	86	Toba	Argentina	-33.0	-60.6	No	Yes	No	No	No	Yes	(39)
SAM	18	Arsario	Colombia	11.2	-74.2	No	No	No	No	No	Yes	(205)
SAM	102	Aymara	Bolivia	-16.0	-68.0	No	No	No	No	No	Yes	(206)
SAM	82	Bari	Venezuela	9.8	-73.0	Yes	Yes	Yes	No	No	No	(6)
SAM	50	Ticuna	Brazil	-5.0	-70.0	No	No	No	Yes	Yes	Yes	(6)
SAM	30	Coreguaje	Colombia	1.6	-75.6	No	No	No	Yes	Yes	Yes	(207)
SAM	34	Ecuador Cayapa	Ecuador	0.2	-78.5	No	No	No	Yes	Yes	No	(208)
SAM	183	Ecuador Cayapa	Ecuador	1.1	-79.2	No	No	No	No	No	Yes	(209)
SAM	20	Embera	Colombia	2.4	-76.6	No	No	No	Yes	Yes	Yes	(207)
SAM	40	Guarani-Mbya	Brazil	-25.1	-56.3	No	Yes	No	No	No	Yes	(18)
SAM	143	Guarani	Brazil	-23.0	-55.0	Yes	Yes	Yes	No	No	Yes	(6)
SAM	32	Guarani	Brazil	-25.2	-52.4	No	No	No	Yes	Yes	Yes	(13)
SAM	52	Guarani	Brazil	-24.0	-55.0	Yes	Yes	No	No	No	Yes	(6)
SAM	30	Ijka	Colombia	10.9	-73.7	No	No	No	Yes	Yes	Yes	(207)
SAM	106	Kaingang	Brazil	-24.5	-51.5	No	No	No	Yes	Yes	Yes	(13)
SAM	235	Kaingang	Brazil	-24.5	-51.7	No	No	No	No	No	Yes	(202)
SAM	31	Kogi	Colombia	10.9	-73.7	No	No	No	Yes	Yes	Yes	(207)
SAM	20	Nukak	Colombia	2.6	-72.6	No	No	No	Yes	Yes	Yes	(207)
SAM	17	Lengua	Paraguay	-24.0	-59.8	No	No	No	No	No	Yes	(210)
SAM	105	Uro	Peru	-15.8	-69.3	Yes	Yes	No	No	No	Yes	(211)
SAM	27	Sikuani	Colombia	6.2	-67.5	No	No	No	Yes	Yes	Yes	(207)
SAM	60	Terena	Brazil	-20.0	-55.0	Yes	Yes	Yes	No	No	Yes	(212)
SAM	49	Ticuna	Brazil	-5.0	-70.0	No	No	No	Yes	Yes	Yes	(6)

SAM	29	Tule	Colombia	8.1	-76.7	No	No	No	Yes	Yes	No	(207)
SAM	26	Venezuelan	Venezuela	10.4	-66.6	No	No	No	No	No	Yes	(13)
SAM	30	Waunana	Colombia	3.4	-76.5	No	No	No	Yes	Yes	Yes	(207)
SAM	24	Wichi	Argentina	-22.3	-63.7	No	No	No	No	No	Yes	(210)
SAM	74	Xavante	Brazil	-15.6	-56.1	No	No	No	No	No	Yes	(203)
SAM	55	Yanomamo	Venezuela	3.0	-65.0	No	No	No	Yes	Yes	Yes	(6)
SAM	73	Yucpa	Venezuela	9.0	-72.0	No	Yes	Yes	Yes	Yes	Yes	(213)
SAM	70	Yukpa	Colombia	10.0	-73.0	No	No	No	Yes	Yes	No	(13)

Geographic regions: SAF: sub-Saharan Africa; NAF: North Africa; EUR: Europe; SWA: South-West Asia; NEA: North-East Asia; SEA: South-East Asia; OCE: Oceania; AUS: Australia; NAM: North America; SAM: South America.

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