Supplementary Information

Ancient inland human dispersals from Myanmar into interior East Asia since the Late Pleistocene

Yu-Chun Li, Hua-Wei Wang, Jiao-Yang Tian, Li-Na Liu, Li-Qin Yang, Chun-Ling Zhu, Shi-Fang Wu, Qing-Peng Kong, and Ya-Ping Zhang

Figure S1. Reconstructed phylogenetic tree of Myanmar mtDNA lineages based on 64 complete sequences. Nucleotide position numbers are consistent with the revised Cambridge reference sequence (rCRS[1]). Suffixes A, C, G, and T refer to transversions, ‘‘d’’ means a deletion, and ‘‘+’’ indicates an insertion; recurrent mutations are underlined; ‘‘@’’ means a reverse mutation; “H” means heterogeneity. The C stretch length polymorphism in regions 303–315, AC indels at 515-522, 16182C, 16183C, 16193.1C(C) and 16519 were disregarded for the tree reconstruction.

Reference for Figure S1

1. Andrews RM, *et al*. Reanalysis and revision of the Cambridge reference sequence for human mitochondrial DNA. *Nat. Genet.* **23,** 147 (1999).

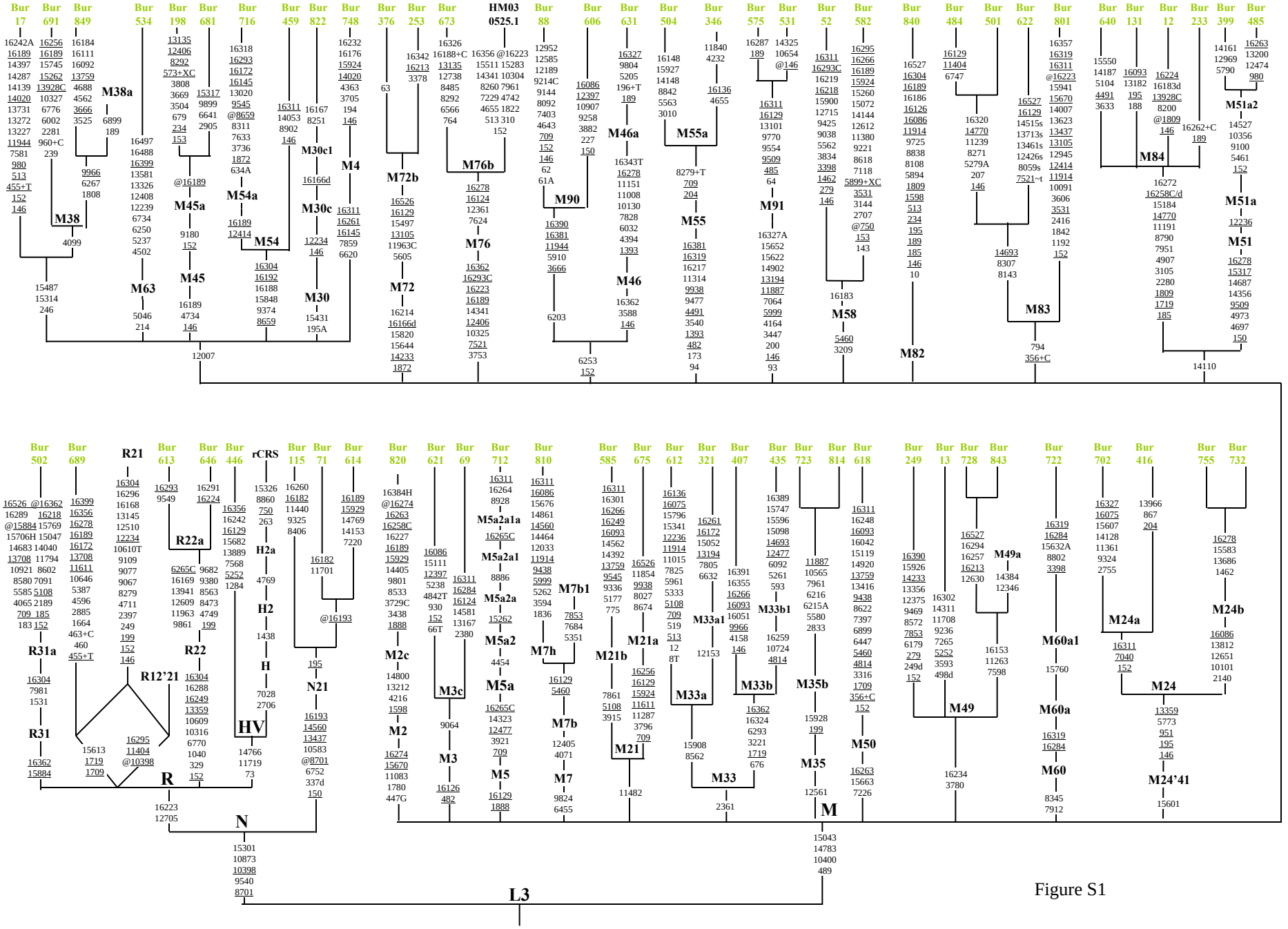
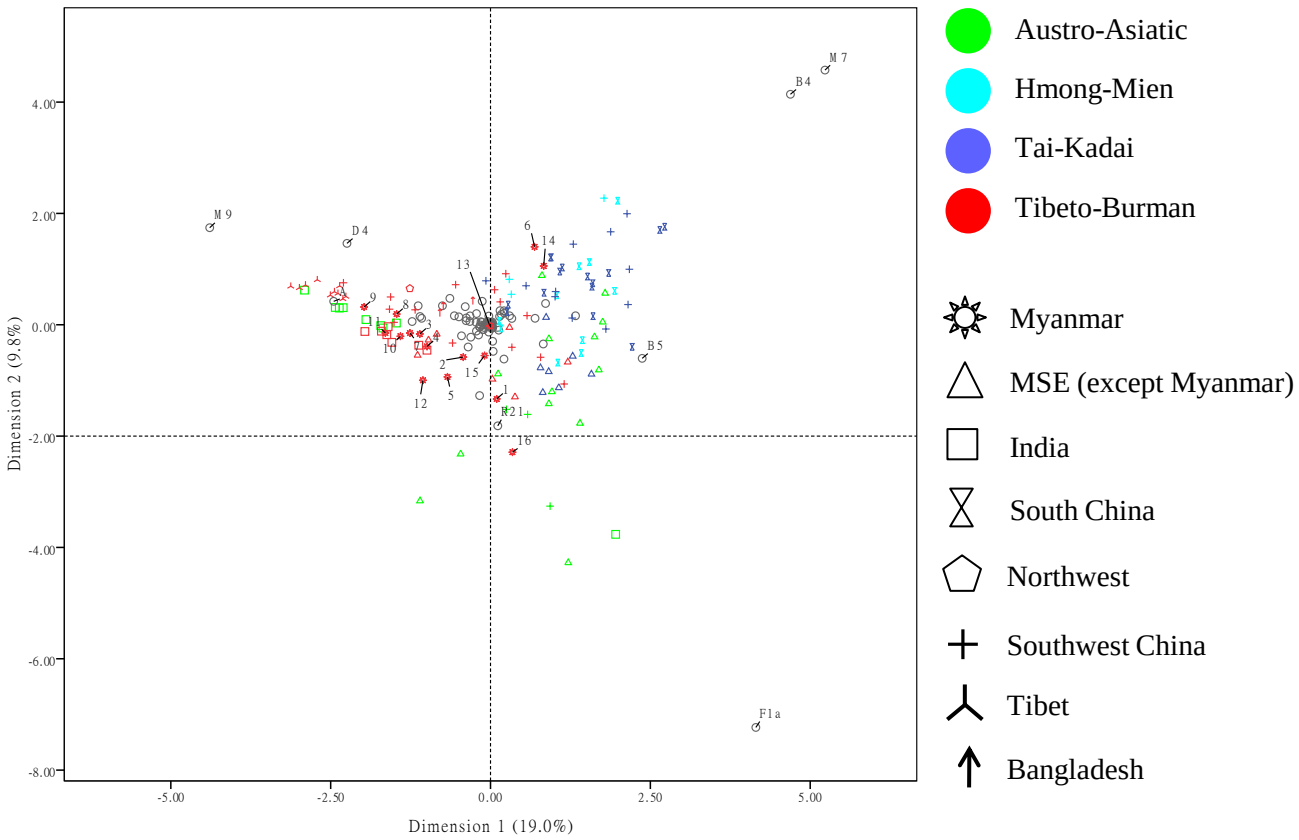

Bur 17
Bur 691
Bur 849
Bur 534
Bur 198
Bur 681
Bur 716
Bur 459
Bur 822
Bur 748
Bur 376
Bur 253
Bur 673
HM03 0525.1
Bur 88
Bur 606
Bur 631
Bur 504
Bur 346
Bur 575
Bur 531
Bur 52
Bur 582
Bur 840
Bur 484
Bur 501
Bur 622
Bur 801
Bur 640
Bur 131
Bur 12
Bur 233
Bur 399
Bur 485
M38a
M38
M63
M45a
M45
M54
M54a
M30c1
M30c
M30
M4
M72b
M72
M76b
M76
M90
M46a
M46
M55a
M55
M91
M58
M82
M83
M84
M51a2
M51
M51a
Bur 502
Bur 689
Bur 613
Bur 646
Bur 446
rCRS
Bur 115
Bur 71
Bur 614
Bur 820
Bur 621
Bur 69
Bur 712
Bur 810
Bur 585
Bur 675
Bur 612
Bur 321
Bur 407
Bur 435
Bur 723
Bur 814
Bur 618
Bur 249
Bur 13
Bur 728
Bur 843
Bur 722
Bur 702
Bur 416
Bur 755
Bur 732
R21
R22a
R22
R12'21
R31a
R31
R
HV
H2a
H2
H
N21
N
M2c
M2
M3c
M3
M5a1a1a
M5a2a1
M5a2a
M5a2
M5a
M7b1
M7h
M7b
M7
M21b
M21a
M21
M33a1
M33a
M33
M33b1
M33b
M35b
M35
M
M49a
M49
M60a1
M60a
M60
M24a
M24
M24'41
M24b
L3

Figure S1

Figure S2. Two-dimension plot of the correspondence analysis based on haplogroup frequencies. Only the haplogroups (represented by gray circles) contributing most to the first and the second dimensions are labelled. Populations from Myanmar were labelled as numbers 1-16. 1, Burmans_1; 2, Burmans_2; 3, Burmans_3; 4, Burmans_4; 5, Burmans_5; 6, Burmans_6; 7, Naga_1; 8, Naga_2; 9, Naga_3; 10, Chin_1; 11, Chin_2; 12, Chin_3; 13, Rakhine_1; 14, Rakhine_2; 15, Bamar_Summerer[1]; 16, Karen_Summerer[1].



Reference for Figure S2

1. Summerer M, *et al.* Large-scale mitochondrial DNA analysis in Southeast Asia reveals evolutionary effects of cultural isolation in the multi-ethnic population of Myanmar. *BMC Evol. Biol.* **14,** 17 (2014).

Figure S3. Phylogenetic trees and median networks of M24, M45, M49, M58, M63, M72, M83, M90 and M91. (a). Phylogenetic trees of M24, M45, M49, M58, M63, M72, M83, M90 and M91. (b). median networks of M24, M45, M58, M63, M72, M83, M90 and M91. based mainly on HVS data (for more information, see Table S8). See the legends of Figures S1 and 3 for more details.

Fig S3a

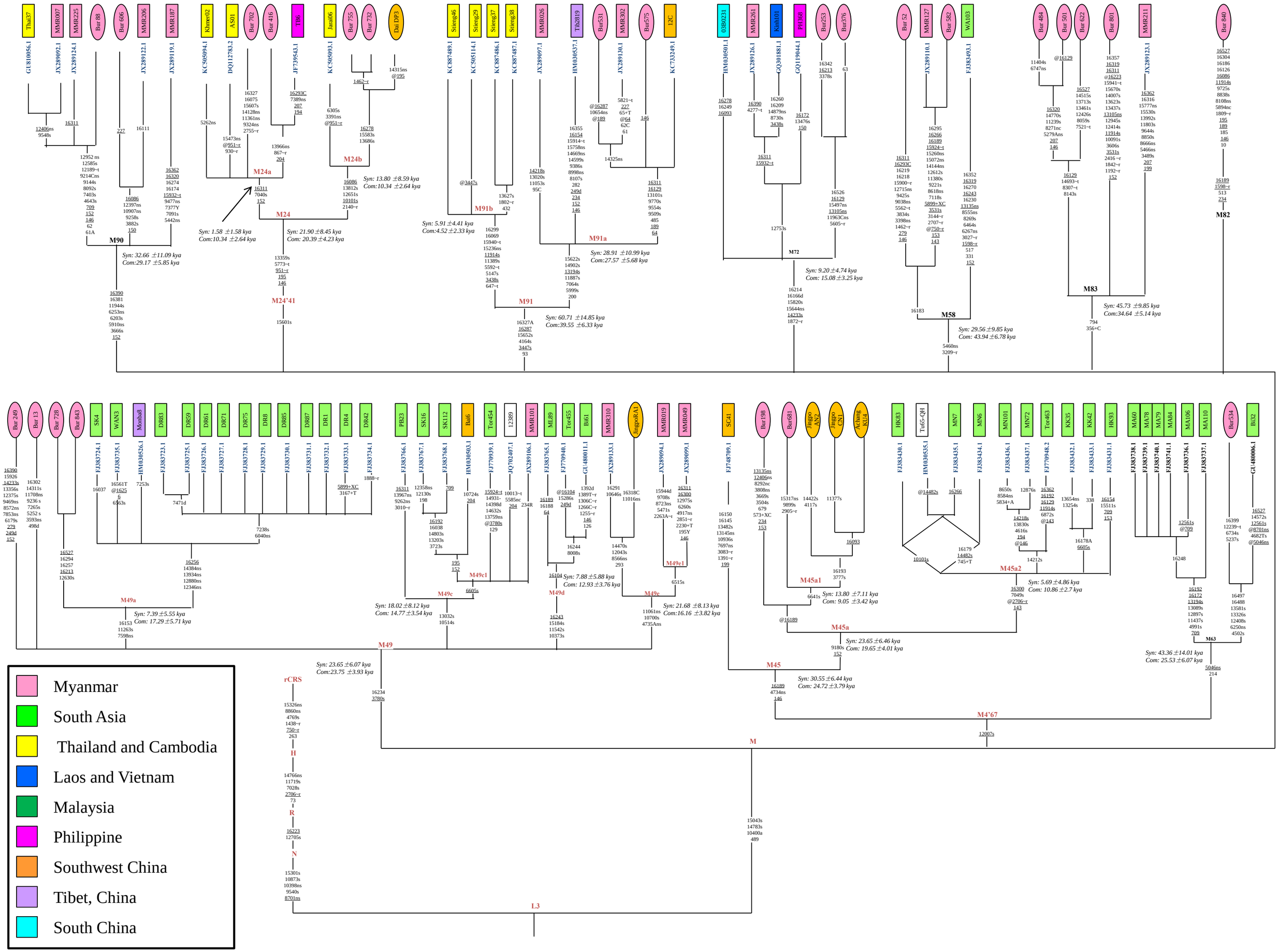

Thai37
MMR007
MMR225
Bur 88
Bur 606
MMR206
MMR187
Khmer02
AS01
Bur 702
Bur 416
TB6
Jarai06
Bur 755
Bur 732
Dai DP3
Steng46
Steng29
Steng37
Steng38
MMR026
Tib2819
Bur531
MMR302
Bur575
12C
03B0231
MMR261
Kinh101
PH360
Bur253
Bur376
Bur 52
MMR127
Bur 582
WA103
Bur 484
Bur 501
Bur 622
Bur 801
MMR211
Bur 840
M90
M24a
M24
M24'41
M91b
M91
M91a
M24b
M49a
M49c
M49c1
M49d
M49e
M49e1
M72
M58
M83
M82
Syn: 32.66 ±11.09 kya
Com:29.17 ±5.85 kya
Syn: 1.58 ±1.58 kya
Com:10.34 ±2.64 kya
Syn: 21.90 ±8.45 kya
Com: 20.39 ±4.23 kya
Syn: 13.80 ±8.59 kya
Com:10.34 ±2.64 kya
Syn: 5.91 ±4.41 kya
Com:4.52 ±2.33 kya
Syn: 60.71 ±14.85 kya
Com:39.55 ±6.33 kya
Syn: 28.91 ±10.99 kya
Com:27.57 ±5.68 kya
Syn: 9.20 ±4.74 kya
Com: 15.08 ±3.25 kya
Syn: 29.56 ±9.85 kya
Com: 43.94 ±6.78 kya
Syn: 45.73 ±9.85 kya
Com:34.64 ±5.14 kya
Bur 249
Bur 13
Bur 728
Bur 843
SK4
WAN3
Monba8
DR83
DR59
DR61
DR71
DR75
DR8
DR85
DR87
DR1
DR4
DR42
PB23
SK16
SK112
Bai6
Tor454
12389
MMR101
ML89
Tor455
Bi61
MMR310
JinggoRA1
MMR019
MMR049
SC41
Bur198
Bur681
Jinggo AN2
Jinggo CN1
Achang KJ14
HK83
Tu65-QH
MN7
MN6
MN101
MN72
Tor463
KK35
KK42
HK93
MA60
MA478
MA479
MA484
MA106
MA110
Bur534
Bi32
M49
M45
M45a
M45a1
M45a2
M4'67
M
L3
rCRS
H
R
N
Myanmar
South Asia
Thailand and Cambodia
Laos and Vietnam
Malaysia
Philippine
Southwest China
Tibet, China
South China

Fig S3b

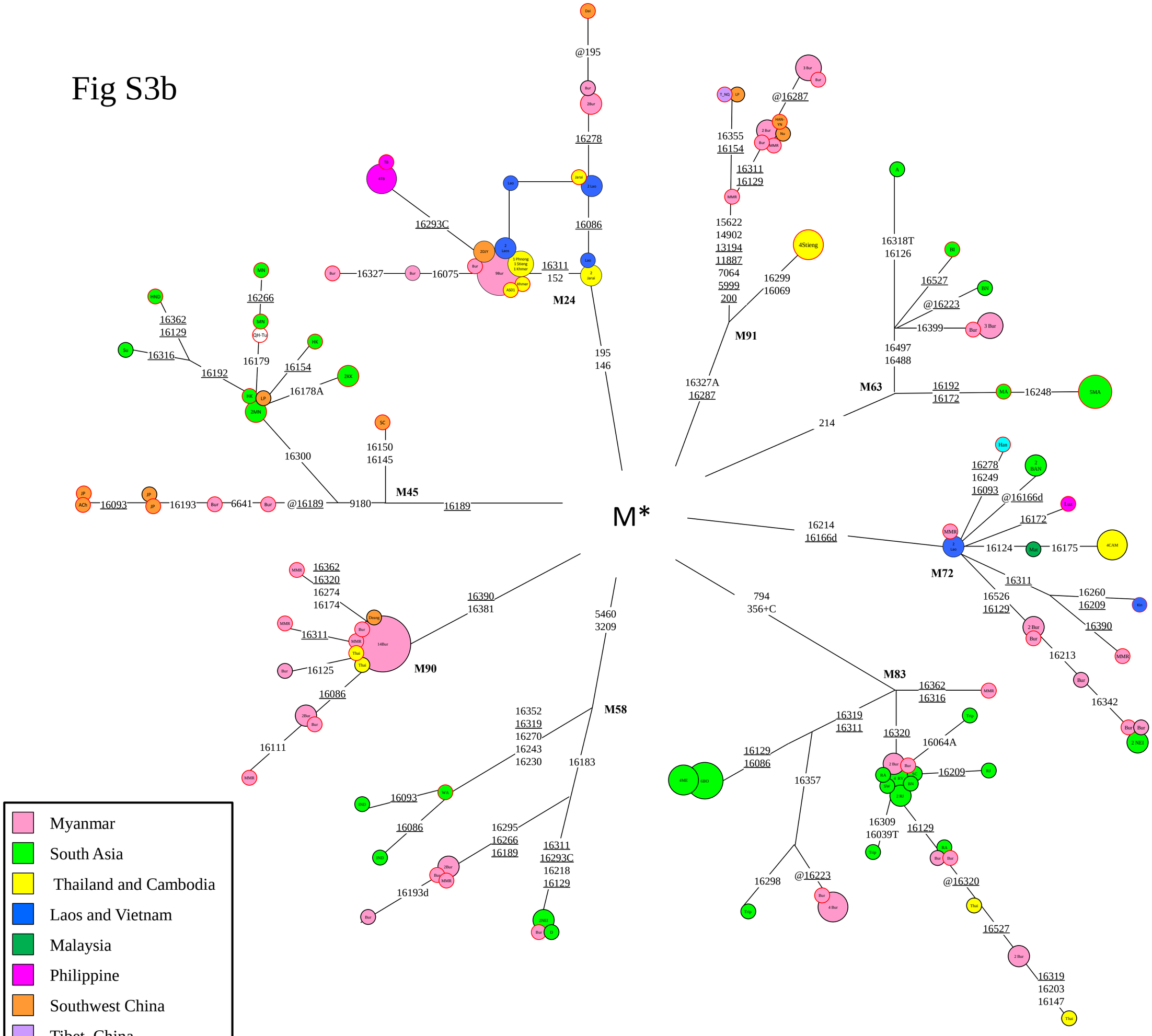
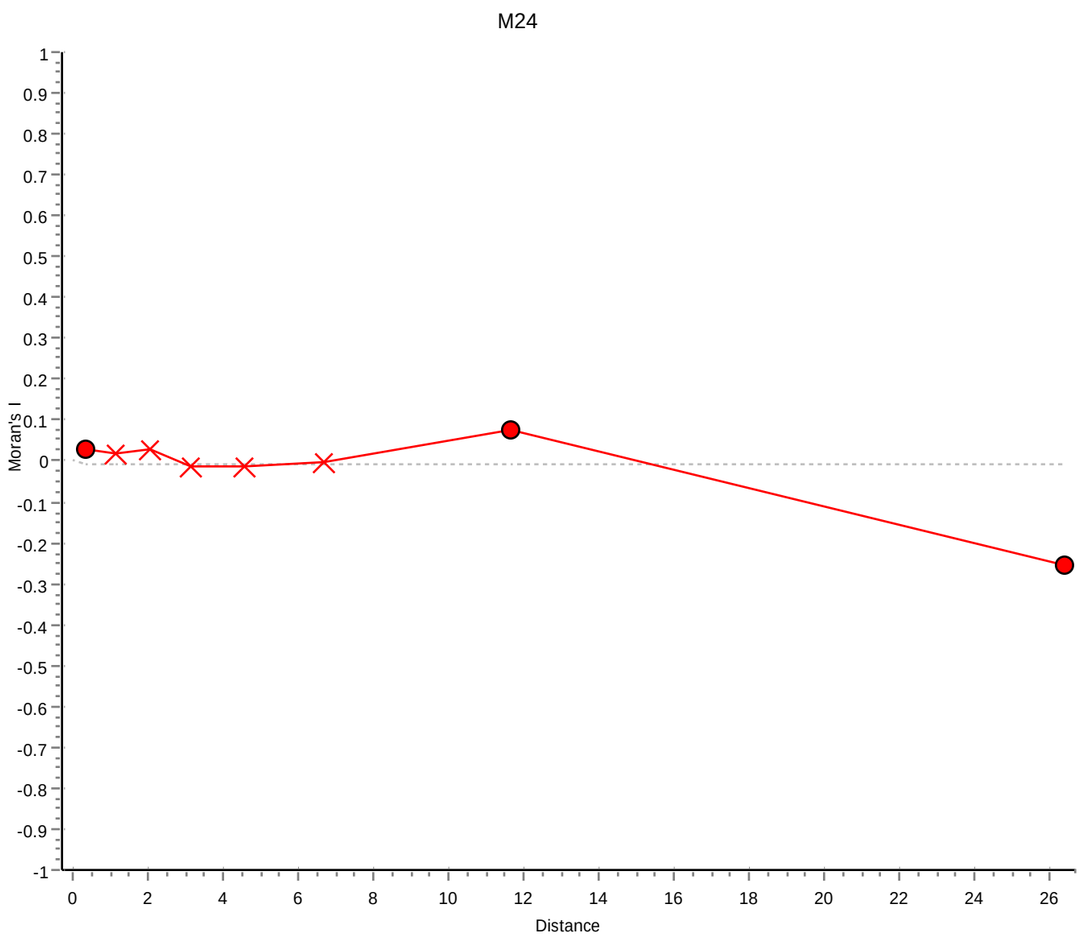
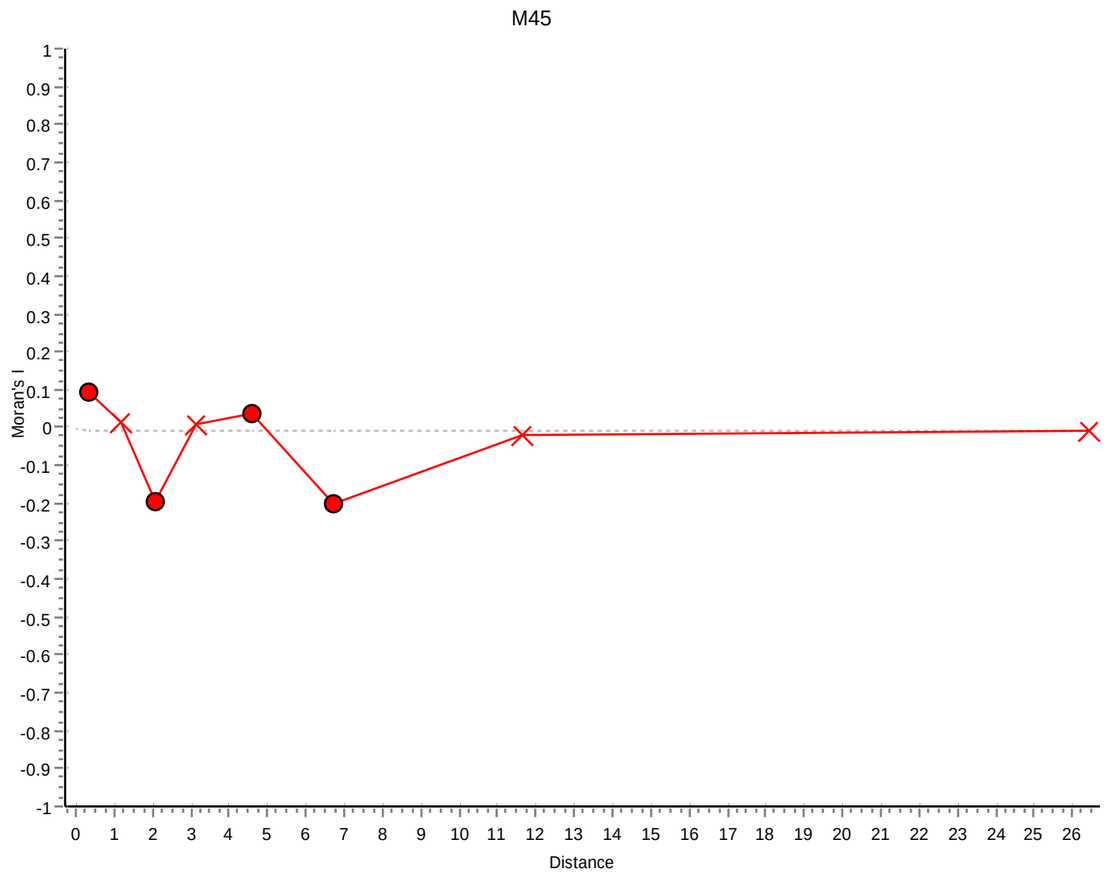
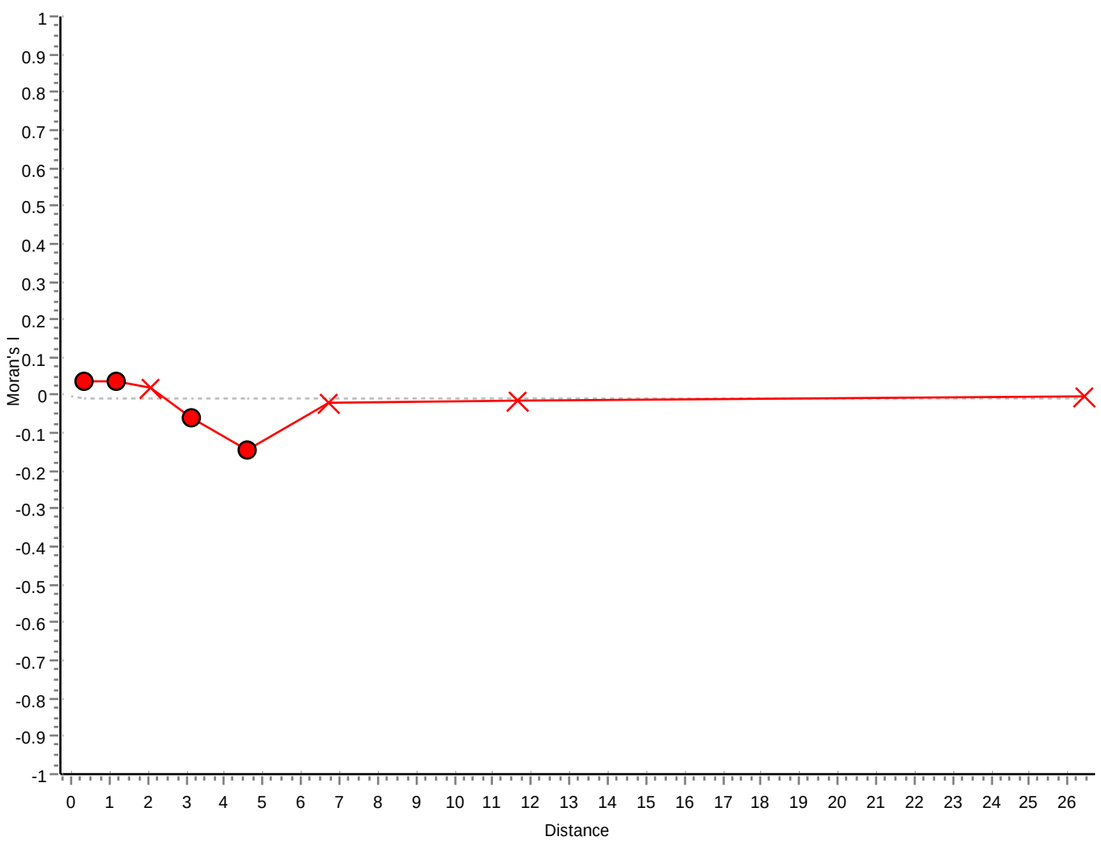
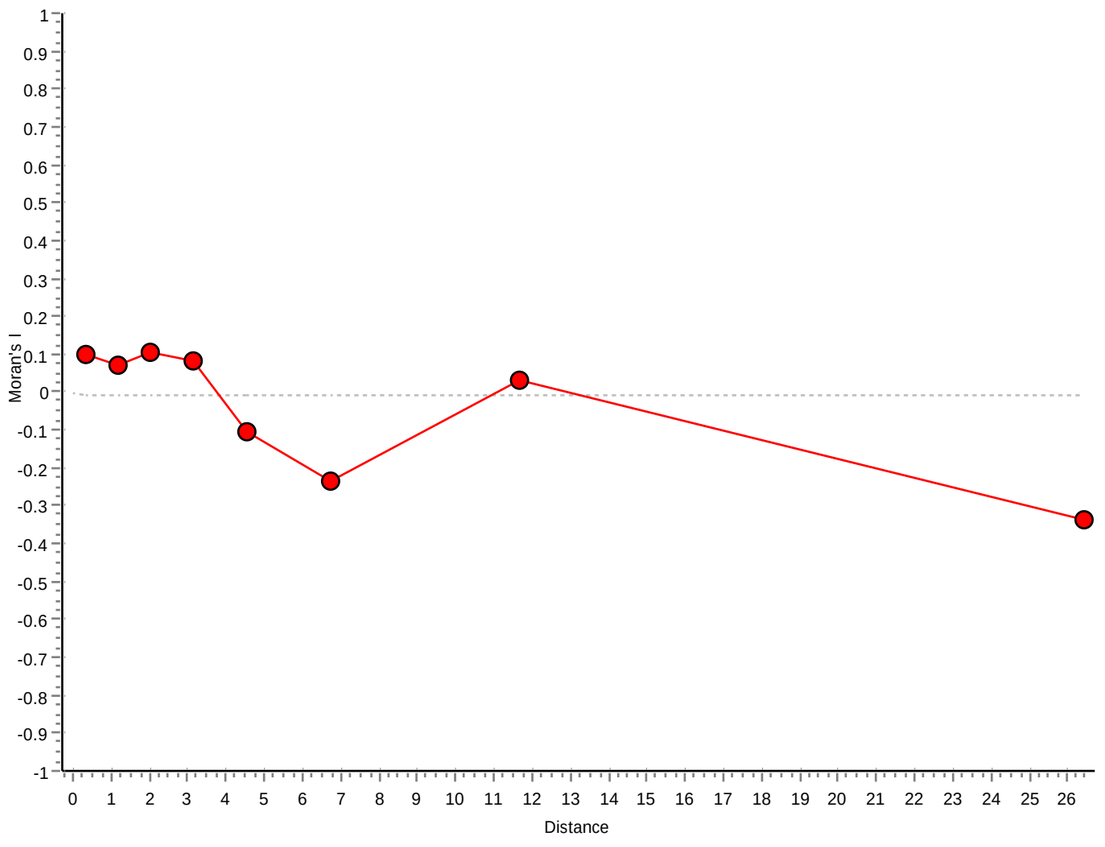

M*
@195
16278
16086
195
146
M24
16293C
16327
16075
16311
152
16266
16362
16129
16316
16192
16179
16154
16178A
16300
16150
16145
M45
16093
16193
6641
@16189
9180
16189
16355
16154
16311
16129
15622
14902
13194
11887
7064
5999
200
M91
16299
16069
16327A
16287
@16287
16318T
16126
16527
@16223
16399
16497
16488
M63
16192
16172
16248
214
16214
16166d
16278
16249
16093
@16166d
16172
16124
16175
M72
16311
16526
16129
16260
16209
16390
16213
16342
794
356+C
M83
16362
16316
16319
16311
16320
16064A
16209
16129
16086
16357
16309
16039T
16129
16298
@16223
@16320
16527
16319
16203
16147
16362
16320
16274
16174
16390
16381
16311
16125
16086
16111
M90
5460
3209
M58
16352
16319
16270
16243
16230
16183
16093
16086
16295
16266
16189
16311
16293C
16218
16129
16193d
Myanmar
South Asia
Thailand and Cambodia
Laos and Vietnam
Malaysia
Philippine
Southwest China
Tibet, China
South China

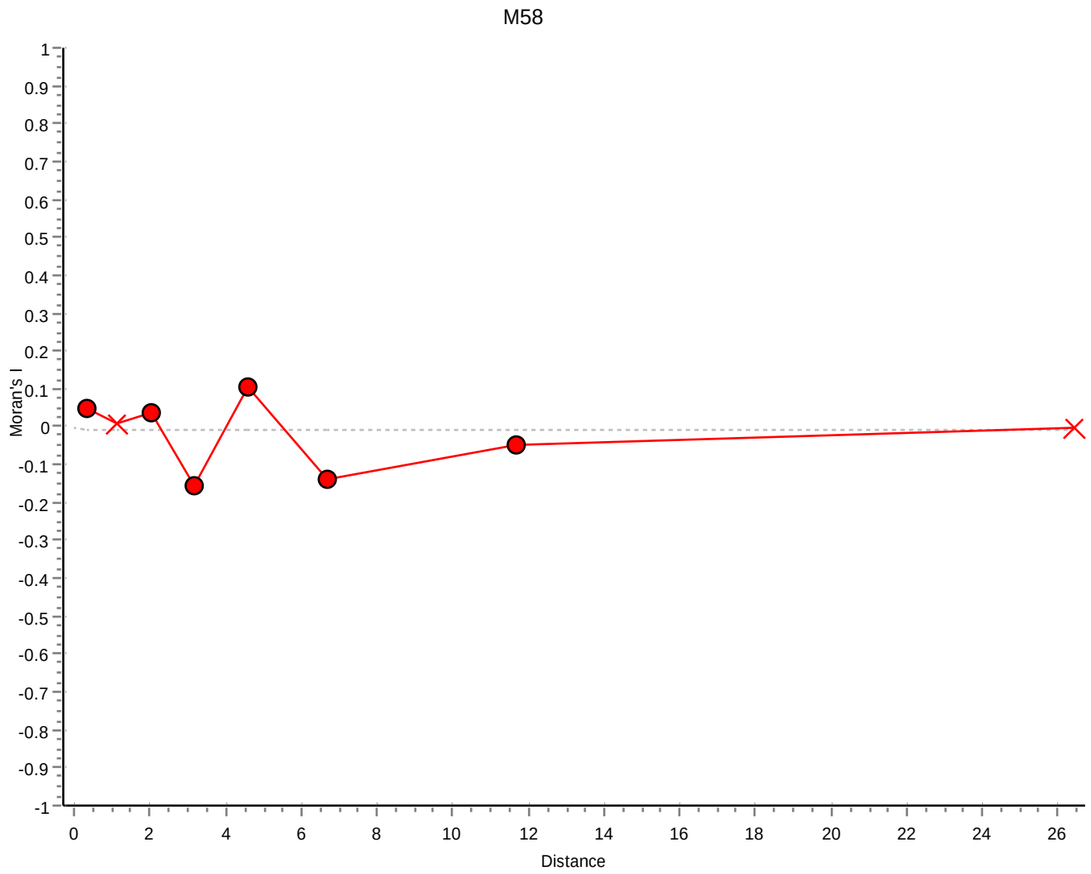
Figure S4. Spatial Analyses Correlograms of different haplogroups in Myanmar.

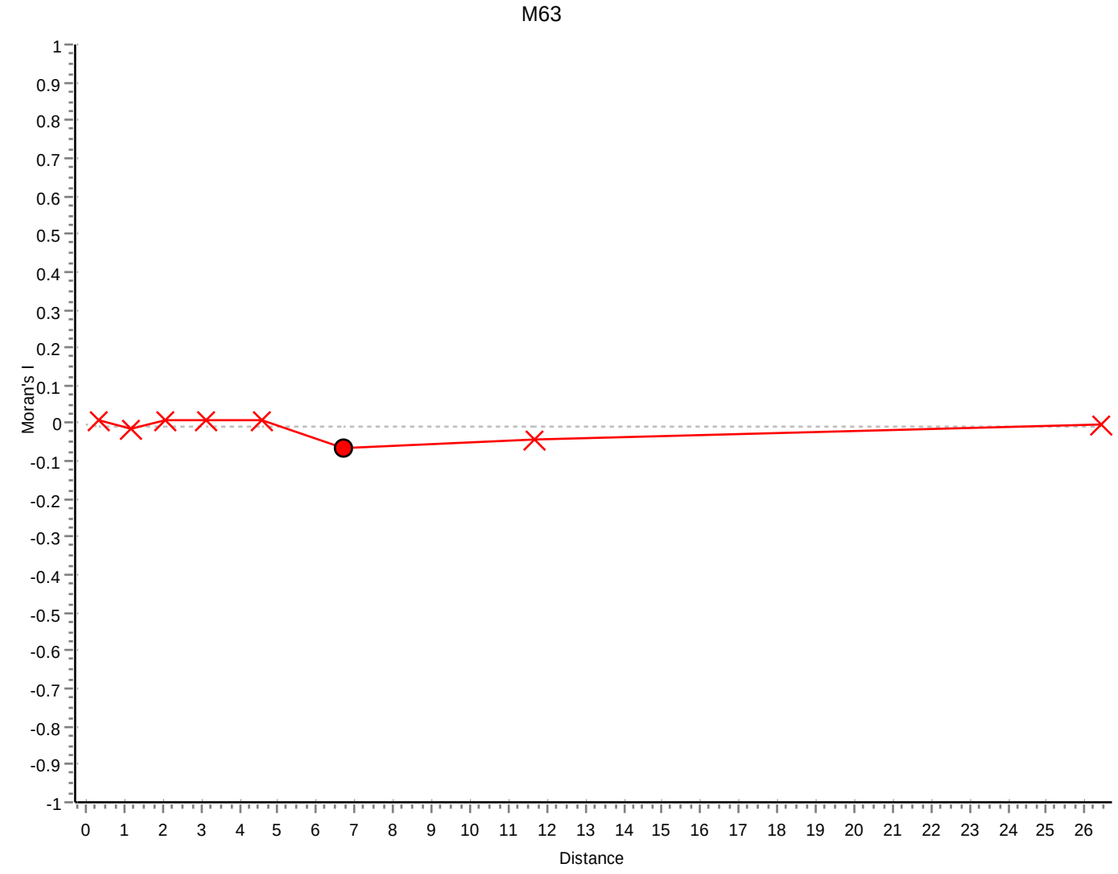


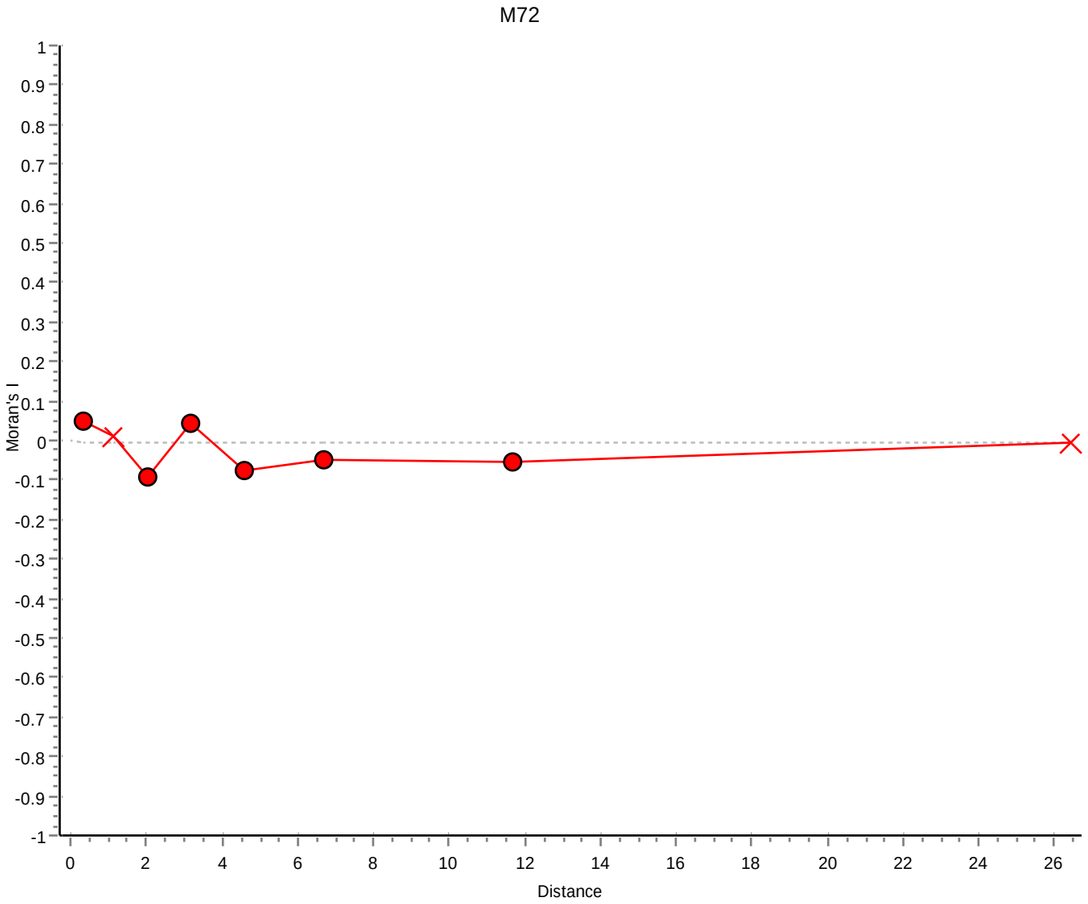


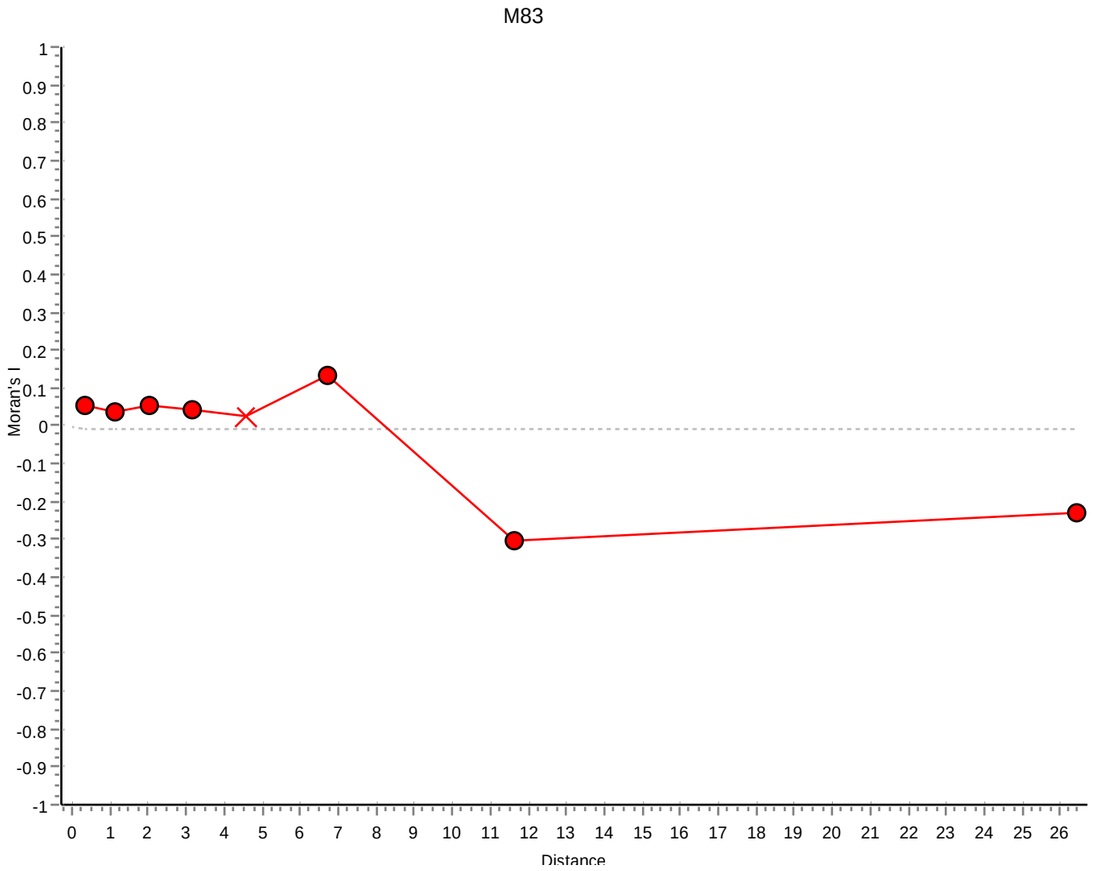


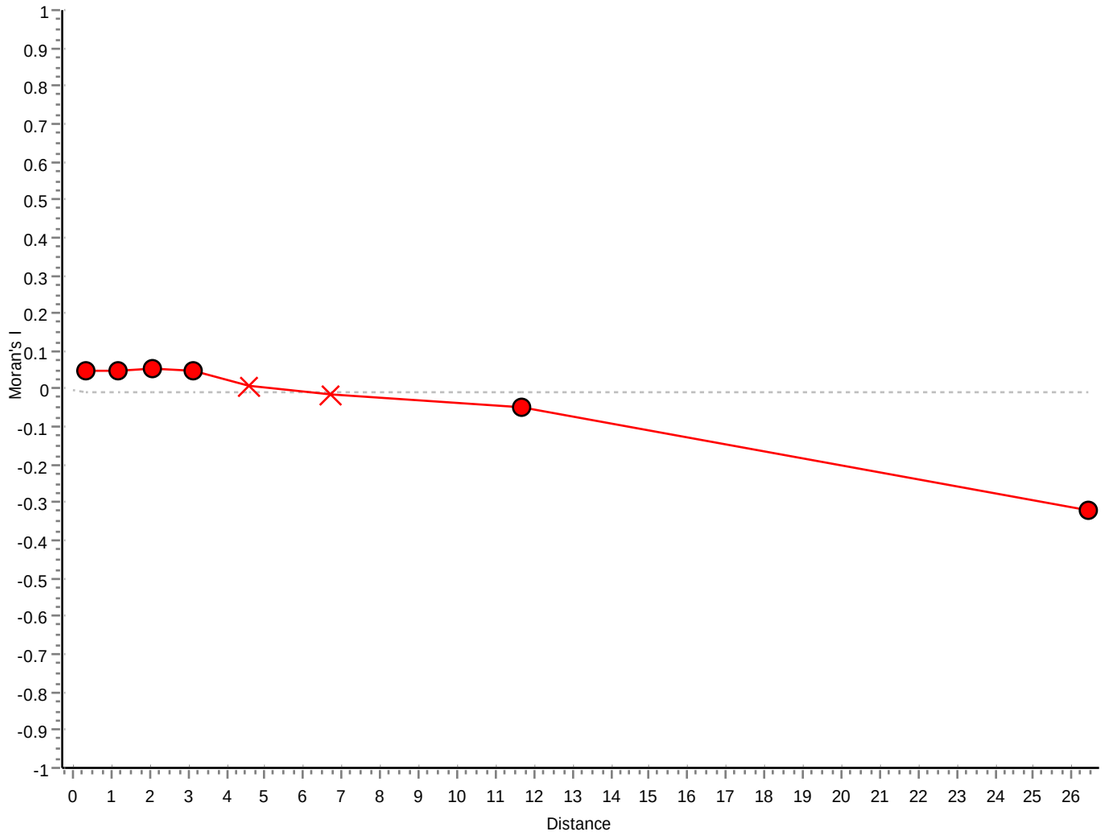


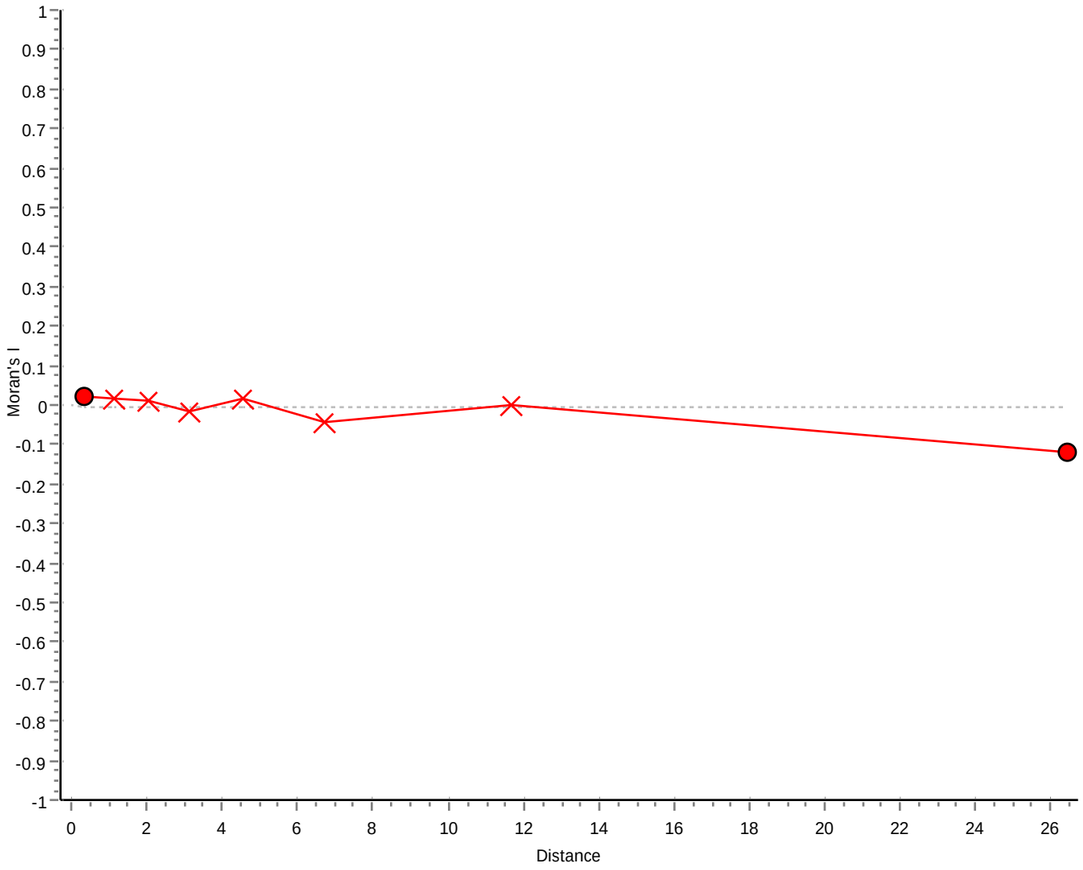


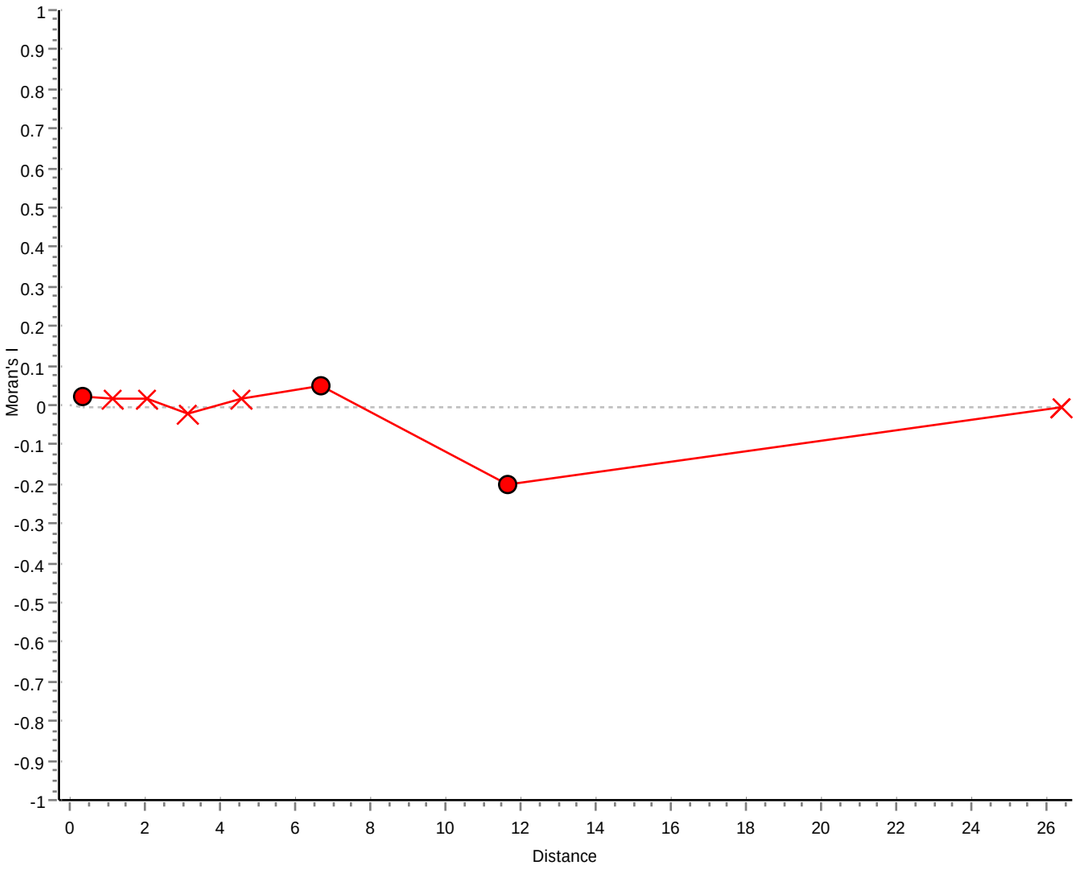












Significant (p<0.05)

Nonsignificant (p>0.05)

Supplementray Table S1. mtDNA variations of 845 Myanmar samples

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha1*	5176*Alu1*	9820*Hinf1*	12406*Hpa1*	13262*Alu1*	14465*Acc1*	Coding-Region Polymorphisms	Location	Nation
1	Burman025	A	223 274 290 319 362 527	73 152 235 263 315+C 522-523d	16008-16569/1-574									Magway	Burmans
1	Burman026	F1a	129 172 304 365 519	73 249d 263 309+C 315+C 522-523d	16007-16569/1-573					-				Magway	Burmans
1	Burman027	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16009-16569/1-574					-				Magway	Burmans
1	Burman028	F1a	129 169 172 304 519	73 249d 263 309+CC 315+C	16033-16569/1-319					-				Magway	Burmans
1	Burman029	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16009-16569/1-574					-				Magway	Burmans
1	Burman030	M9a1b1	086 158 223 234 362 519	73 150 152 153 263 315+C 489	16007-16569/1-504				-				4238-4571=4491	Magway	Burmans
1	Burman031	F1c	111 129 304 519	73 152 234 249d 263 309+CC 315+C 522-523d	16000-16569/1-316					-				Magway	Burmans
1	Burman032	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16014-16569/1-574									Magway	Burmans
1	Burman033	M7b	086 129 189 216 223 297	73 150 199 263 309+C 315+C 332 489	16009-16569/1-574				+					Sagaing	Burmans
1	Burman034	B5a	092 140 182C 183C 189 266A 519	73 210 263 315+C 522-523d	16012-16569/1-574	+								Sagaing	Burmans
1	Burman035	F1a	129 172 304 311 519	73 249d 263 309+CC 315+C	16006-16569/1-319					-				Sagaing	Burmans
1	Burman036	M49	153 213 223 234 257 294 519 527	73 263 309+C 315+C 489	16012-16569/1-574								3682-4420=3780	Sagaing	Burmans
1	Burman037	U2b	051 092 168	47 51 57 57+G 73 146 263 292 309+C 315+C 522-523d	16012-16569/1-575								12064-12355=12106 12308	Sagaing	Burmans
1	Burman038	B5a	092 140 182C 183C 189 266A 519	73 210 263 315+C 522-523d	16008-16569/1-574	+								Sagaing	Burmans
1	Burman039	D4a	201 223 319 362	73 152 263 309+C 315+C	16017-16569/1-487		-	-						Sagaing	Burmans
1	Burman040	D4a	201 223 319 362	73 152 263 309+C 315+C 489	16016-16569/1-575		-	-						Sagaing	Burmans
1	Burman041	C	189 223 298 327 357 519	73 249d 263 309+CC 315+C	16012-16569/1-376						+			Sagaing	Burmans
1	Burman042	F1a1a	108 129 162 172 304 519	73 249d 263 315+C 522-523d	16008-16569/1-574					-				Sagaing	Burmans
1	Burman043	B5a	092 140 182C 183C 189 266A 519	73 210 263 315+C 522-523d	16007-16569/1-574	+								Sagaing	Burmans
1	Burman044	M7b	129 192 223 297	73 150 199 263 315+C 489	16007-16569/1-574				+					Sagaing	Burmans
1	Burman045	F1a	129 172 295 304 519	73 200 249d 263 315+C	16007-16569/1-316					-				Sagaing	Burmans
1	Burman046	B5a	092 140 182C 183C 189 266A 519	73 210 263 315+C	16006-16569/1-426	+								Sagaing	Burmans
1	Burman048	U2b	051 092 168	47 51 57 57+G 73 146 263 292 309+C 315+C 522-523d	16008-16569/1-575								1502-2135=1811	Sagaing	Burmans
1	Burman050	F1a	129 172 295 304 519	73 200 249d 263 315+C 522-523d	16013-16569/1-575					-				Sagaing	Burmans
1	Burman051	U2b	051 092 168	47 51 57 57+G 73 146 263 292 309+C 315+C	16007-16569/1-316								12056-12244=12106	Sagaing	Burmans
1	Burman052*	M58	129 183 218 223 293C 311 519	73 146 263 279 309+C 315+C	16007-16569/1-316								4520-5220=4769; 15016-15472=15043 15301 15326	Sagaing	Burmans
1	Burman053	F1a	129 172 304 311 519	73 249d 263 309+C 315+C 522-523d	16010-16569/1-575					-				Sagaing	Burmans
1	Burman054	U2b	051 092 168	47 51 57 57+G 73 146 263 292 309+C 315+C	16013-16569/1-316								12054-12310=12106 12308	Sagaing	Burmans
1	Burman055	D4a	201 223 319 362	73 152 263 309+C 315+C 489	16007-16569/1-575		-	-						Sagaing	Burmans
1	Burman056	B5a	092 140 182C 183C 189 266A 519	73 210 263 315+C 522-523d	16007-16569/1-575	+								Sagaing	Burmans
1	Burman058	B5a	092 140 182C 183C 189 266A 519	73 210 263 315+C 522-523d	16007-16569/1-574	+								Sagaing	Burmans
1	Burman059	D4a	201 223 319 362	73 152 263 309+C 315+C 489	16012-16569/1-575									Sagaing	Burmans
2	Burman061	D	093 223 362 526	73 263 309+C 315+C 489	16007-16569/1-543		-	-						Sagaing	Burmans
2	Burman062	A	179 223 290 311 319 362	73 152 235 263 315+C	16025-16569/1-575									Sagaing	Burmans
2	Burman063	F1	093 183C 189 304 519	73 146 249d 263 309+C 315+C	16008-16569/1-317					-				Sagaing	Burmans
2	Burman064	B*	051 183C 189 354 519 527	73 263 315+C 356+C	16010-16569/1-575								11727-12219=11914	Sagaing	Burmans
2	Burman065	G	223 304 362	73 263 309+C 315+C 489	16007-16569/1-575		+	+						Sagaing	Burmans
2	Burman066	M76	124 183C 189 293C 356 362 519	73 263 310	16014-16569/1-309		+	-					7924-8360=7961 8260; 4528-5446=4655 4742 4769	Sagaing	Burmans
2	Burman068	N8	223 263 274 311 318C 343 357 519	73 152 263 309+C 315+C	16011-16569/1-575								7906-8443=7961 8188	Sagaing	Chin
2	Burman069*	M3c	124 126 284 311 519	73 263 315+C 482 489	16007-16569/1-575									Sagaing	Chin
2	Burman070	G	223 304 362	73 263 309+C 315+C 489	16001-16569/1-545		+	+						Sagaing	Chin
2	Burman071*	N21	182 223 519	73 150 195 263 315+C 337d 522-523d	16008-16569/1-574								13071-13514=13437	Sagaing	Burmans
2	Burman072	R9d	223 304 362	73 263 309+C 315+C 489	16031-16569/1-510								12591-12857=12705	Sagaing	Burmans
2	Burman073	F1	183C 189 304 519	73 249d 263 309+C 315+C	16021-16569/1-379					-				Sagaing	Burmans
2	Burman074	R9b	192 304 311 390 519	73 183 204 263 309+C 315+C	16021-16569/1-454								12644-12837=12714	Sagaing	Burmans
2	Burman075	R9b	192 304 309 390 519	73 183 204 263 309+C 315+C	16007-16569/1-316								12691-12736=12714	Sagaing	Burmans
2	Burman076	D4	223 256 311 362 519	73 146 200 263 315+C 489	16022-16569/1-575		-	-						Sagaing	Burmans
2	Burman077	M7a	209 223 243 304 519	73 152 199 263 315+C 489 513	16007-16569/1-575								6364-6908=rCRS	Sagaing	Burmans
2	Burman078	A	189 223 290 319	64 73 151 152 235 263 315+C	16023-16193/16199-316									Sagaing	Burmans
2	Burman079	M24	075 223 311 519	73 146 152 195 263 309+C 489	16021-16569/1-515								15012-15800=15043 15301 15326 15601 15607	Sagaing	Burmans
2	Burman081	F1a	129 172 189 304 519	73 152 249d 263 315+C 522-523d	16009-16569/1-575					-				Sagaing	Burmans
2	Burman082	U2b	051 168 224 239 357	73 146 195 263 309+CC 315+C	16021-16569/1-575								12059-12609=12106 12308 12372	Sagaing	Burmans
2	Burman083	A	189 223 290 319	64 73 151 152 235 263 315+C 522-523d	16008-16569/1-575									Sagaing	Burmans
2	Burman084	R9b	192 304 309 390 519	73 183 204 263 309+C 315+C	16021-16569/1-363								12589-13057=12714	Sagaing	Burmans
2	Burman085	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16012-16569/1-575								5813-6362=5910 6023 6253	Sagaing	Burmans
2	Burman086	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16009-16569/1-575								5811-6363=5910 6023 6253	Sagaing	Burmans
2	Burman087	D4b2	223 519	73 263 309+C 315+C 489 522-523d	16007-16569/1-575									Sagaing	Burmans
2	Burman088*	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16007-16569/1-575									Sagaing	Burmans
2	Burman089	R9b	192 304 309 390 519	73 183 204 263 309+C 315+C 522-523d	16013-16569/1-575								12596-13178=12714	Sagaing	Burmans
2	Burman090	F1	183C 189 304 519	73 249d 263 309+C 315+C	16007-16569/1-316					-				Sagaing	Burmans
2	Burman091	M4a	145 192 223 300 316 519	73 146 263 309+CC 315+C 489	16008-16569/1-575								11729-12146=12007	Sagaing	Burmans
2	Burman092*	M84	223 258C 272 519	73 185H 263 309+C 315+C 489	16014-16569/1-575								14079-14596=14110	Sagaing	Burmans
2	Burman093	B4	183C 189 217 234 519	73 262 263 315+C	16007-16569/1-575	+								Sagaing	Burmans
2	Burman094	M84	223 258C 272 519	73 185 263 309+C 315+C	16012-16569/1-316								14076-14604=14110	Sagaing	Burmans

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
2	Burman095	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16012-16569/1-575					-				Sagaing	Burmans
2	Burman096	F1a	129 172 304 519	73 249d 263 315+C 522-523d	16002-16569/1-575					-				Sagaing	Burmans
2	Burman097	D5a2	092 172 182C 183C 189 223 266 362	73 150 263 309+CC 315+C	16018-16569/1-320		-	-						Sagaing	Burmans
2	Burman099	D5a2	092 164 172 182C 183C 189 223 266 362 519	73 150 263 309+C 315+C	16008-16569/1-316		-	-						Sagaing	Burmans
2	Burman100	F1a	129 172 304 519	73 249d 263 309+CC 315+C 522-523d	16013-16569/1-575		-	-					6364-6799=6392 6515	Sagaing	Burmans
2	Burman101	G	037 129 223 261 362 519	73 152 235 263 309+C 315+C 489	16010-16569/1-575		+	+						Sagaing	Burmans
2	Burman102	G	037 129 223 261 362 519	73 152 235 263 309+C 315+C 489	16009-16569/1-505		+	+						Sagaing	Burmans
2	Burman103	G	037 129 223 261 362 519	73 152 235 263 309+C 315+C 489	16013-16569/1-575		+	+						Sagaing	Burmans
2	Burman104	G	037 129 223 261 362 519	73 152 235 263 309+C 315+C 489	16012-16569/1-575		+	+					4521-5181=4769	Sagaing	Burmans
2	Burman105	D4g2a	223 274 362 519	73 263 298 309+CC 315+C 489	16007-16569/1-575									Sagaing	Burmans
2	Burman107	F1a	129 172 304 519	73 249d 263 309+CC 315+C 522-523d	16014-16569/1-571					-				Sagaing	Burmans
2	Burman108	M5	129 223 311	73 263 315+C 489	16005-16569/1-575								4519-5223=4769; 15011-15472=15043 15301 15326	Sagaing	Burmans
2	Burman109	F	183C 189 304 519	73 249d 263 309+C 315+C 464 522-523d	16013-16569/1-575								6364-6890=6620; 12606-12802=rCRS	Sagaing	Burmans
2	Burman110	R9b	192 304 309 390 519	73 183 204 263 309+C 315+C 522-523d	16012-16569/1-575								6364-6742=6620	Sagaing	Burmans
2	Burman111	R9b	192 304 309 390 519	73 183 204 263 309+C 315+C	16001-16569/1-517								12598-12937=12882	Sagaing	Burmans
2	Burman112	N21	182 193 223 260 519	73 150 195 263 309+C 315+CC 337d	16013-16569/1-575								13106-13609=13437	Sagaing	Burmans
2	Burman113	R9b	192 304 309 390 519	73 183 204 263 309+C 315+C 522-523d	16013-16569/1-575								14617-15070=14766 14953	Sagaing	Burmans
2	Burman114	M12a	172 183C 189 209 223 234 290 291 519	73 125 127 128 146 195 263 309+C 315+C 489	16013-16569/1-552								13093-13926=rCRS; 6365-6906=6446	Sagaing	Burmans
2	Burman115*	N21	182 193 223 260 519	73 150 195 263 309+C 315+C 337d	16013-16569/1-317									Sagaing	Burmans
2	Burman116	M31a2	093 126 145 223	73 195 263 315+C 489	16015-16569/1-575						-		15014-15827=15043 15258 15301 15326 15440 15530	Sagaing	Burmans
2	Burman117	F1a	129 172 304 519	73 249d 263 315+C 522-523d	16019-16569/1-575					-				Sagaing	Burmans
3	Burman176	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C	16032-16569/1-455									Sagaing	Burmans
3	Burman177	R9b	124 148 304 309 327 390 519	73 204 263 309+C 315+C 523+CA	16013-16569/1-575								12599-12910=12714	Sagaing	Burmans
3	Burman178	R9b	124 148 304 309 327 390 519	73 204 263 309+C 315+C 523+CA	16013-16569/1-575								12598-13039=12714	Sagaing	Burmans
3	Burman179	M9a1b1	158 223 234 311 362 519	73 150 152 153 263 315+C 489	16012-16569/1-575								4237-4787=4491 4769	Sagaing	Burmans
3	Burman180	R9b	124 148 304 309 327 390 519	73 204 263 309+C 315+C 523+CA	16013-16569/1-575								12598-12967=12714	Sagaing	Burmans
3	Burman181	M46	223 278 327 343T 519	73 146 152 189 196+T 309+C 315+C 489 522-523d	16013-16569/1-575								5811-6360=6032 6253	Sagaing	Burmans
3	Burman182	U2b	051 092 209 239 311 352 353	73 146 152 234 263 315+C	16012-16569/1-575								12059-12507=12106 12308 12372	Sagaing	Burmans
3	Burman183	M50a	042 093 223 248 263 311 519	73 152 263 315+C 356+C 489 522-523d	16044-16569/1-575									Sagaing	Burmans
3	Burman184	R9b	124 148 304 309 327 390 519	73 204 263 309+C 315+C 523+CA	16013-16569/1-575								12605-12930=12714	Sagaing	Burmans
3	Burman185	D4g2a	223 274 362	73 150 263 298 309+C 315+C 489	16013-16569/1-575								4528-5000=4769 4883	Sagaing	Burmans
3	Burman186	R9b	124 148 304 309 327 390 519	73 204 263	16018-16569/1-272								12591-13138=12714	Sagaing	Burmans
3	Burman187	R9b	124 148 304 309 327 390 519	73 204 263 309+C 315+C 523+CA	16013-16569/1-575								12594-12965=12714	Sagaing	Burmans
3	Burman188	D4b2	223 519	73 263 309+C 315+C 489 522-523d	16013-16569/1-575									Sagaing	Burmans
3	Burman189	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16013-16569/1-575								5843-6290=5910 6023 6253	Sagaing	Burmans
3	Burman190	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16007-16569/1-575								11023-11821=11719; 14077-14694 =rCRS	Sagaing	Burmans
3	Burman191	G2a	223 278 362	73 260 263 309+C 315+C 489	16012-16569/1-575								4520-5223=4769 5108	Sagaing	Burmans
3	Burman192	R31	223 289 304 526	73 152 183 184 185 204 207 263 315+CC	16007-16569/1-460								11023-11825=11719; 14098-14702=rCRS	Sagaing	Burmans
3	Burman193	B5a	129 140 182C 183C 189 261 266A 519	73 152 210 263 315+C	16007-16569/1-316								11033-11755=11465 11719; 14075-14449=rCRS	Sagaing	Burmans
3	Burman194	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C	16007-16569/1-316								11025-11779=11719; 14072-14338 =rCRS	Sagaing	Burmans
3	Burman195	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C	16016-16569/1-316									Sagaing	Burmans
3	Burman196	M84	223 258d 272 519	73 185 263 309+C 315+C	16013-16569/1-316								14077-14705=14110	Sagaing	Chin
3	Burman197	A	223 290 319 362 519	73 151 152 200 235 263 522-523d	16011-16569/1-575								11033-11719=rCRS; 14090-14702=rCRS	Sagaing	Burmans
3	Burman198*	M45	519	73 146 152 153 234 263 309+C 315+C 489	16227-16569/1-573								1803-2369=rCRS; 2432-4962=2706 3504 3669 3808 4734 4769; 5309-5928=rCRS; 11023-11797=11719; 14075-14701=rCRS	Sagaing	Burmans
3	Burman199	F1	189 304 311 400 519	73 146 249d 263 315+C 522-523d	16012-16569/1-575								6364-6653=6392	Sagaing	Burmans
3	Burman200	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 309+C 315+C 329	16013/16569/1-574								12600-12929=12609; 13072-13671=13359	Sagaing	Burmans
3	Burman201	F1	189 304 311 400 519	73 146 249d 263 315+C 522-523d	16016-16569/1-575								6357-6758=6392	Sagaing	Burmans
3	Burman202	C	223 298 311 325 327 357	73 249d 263 310	16013-16569/1-315								13073-13576=13263	Sagaing	Burmans
3	Burman203	F1b	183C 189 232A 249 302 304 519	73 152 249d 263 309+C 315+C 522-523d	16013-16569/1-575								6364-6780=6392	Sagaing	Burmans
3	Burman204	D5a	093 172 182C 183C 189 223 266 362	73 150 263 309+C 315+C	16014-16569/1-319								11028-11797=11719; 14075-14694=rCRS	Sagaing	Burmans
3	Burman205	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16013-16569/1-575								5831-6270=5910 6023 6253	Sagaing	Burmans
3	Burman206	D5a2	092 172 182C 183C 189 223 266 362	73 150 263 309+C 315+C	16012-16569/1-317									Sagaing	Burmans
3	Burman207	D5a2	092 172 182C 183C 189 223 266 362	73 150 263 309+C 315+C 489 522-523d	16012-16569/1-575									Sagaing	Burmans
3	Burman208	D5a	092 182C 183C 189 223 266 362	73 150 263 309+CC 315+C	16007-16569/1-319								11033-11821=11719; 14074-14703=rCRS	Sagaing	Burmans
3	Burman209	M90	125 223 381 390	61A 62 73 146 152 263 309+C 315+C	16007-16569/1-316								11033-11798=11440 11719; 14071-14697=rCRS	Sagaing	Burmans
3	Burman210	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 309+C 315+C	16013-16569/1-317								12589-12966=12609; 13085-13653=13539	Sagaing	Burmans
3	Burman211	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16012-16569/1-575								5831-6362=5910 6023 6253	Sagaing	Burmans
3	Burman212	D4e	223 291 362	73 94 263 315+C 489	16017-16569/1-476								4521-523=4769 4883 5178A	Sagaing	Burmans
3	Burman213	R22a	169 249 265C 288 291 304 519	73 152 199 263 309+C 315+C	16012-16569/1-316								11022-11866=11719; 14076-14695=rCRS	Sagaing	Burmans
3	Burman214	M71	129 136 140 223 271 519	46 73 143 146 151 235 263 315+C 489	16013-16569/1-575								11022-11832=11626 11719; 14065-14693=14605	Sagaing	Burmans
3	Burman215	D4	129 223 362	73 152 263 309+C 315+C 489	16007-16569/1-575								11033-11753=11719; 14071-14694=14668	Sagaing	Burmans
3	Burman216	F1a	129 172 304 519	73 249d 263 315+C	16016-16569/1-348								6364-6763=6392 6515	Sagaing	Burmans
3	Burman217	D4b2	223 519	73 263 309+C 315+C 489 522-523d	16007-16569/1-575									Sagaing	Burmans
3	Burman218	K	093 224 311 362 519	73 263 315+C 497 523+CA	16010-16569/1-574									Sagaing	Burmans

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
3	Burman219	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 309+C 315+C 329	16017-16569/1-575									Sagaing	Burmans
3	Burman220	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16018-16569/1-575								5814-6280=5910 6023 6253	Sagaing	Burmans
3	Burman221	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C	16009-16569/1-316								11033-11864=11719; 14073-14694=rCRS	Sagaing	Burmans
3	Burman222	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16007-16569/1-575								5813-6059=5910 6023	Sagaing	Burmans
3	Burman223	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 309+C 315+C 329	16013-16569/1-575								12597-12909=12609; 13084-13533=13359	Sagaing	Burmans
3	Burman224	M9a1b1	158 223 234 362 519	73 150 152 263 309+C 315+C 489	16012-16569/1-575								4237-4862=4491 4769	Sagaing	Burmans
3	Burman225	U2b	051 093 168 172 359	73 146 263 315+C	16012-16569/1-316								12042-12512=12106 12308 12372	Sagaing	Burmans
3	Burman226	D	223 311H 362 519	73 263 315+C 489 522-523d	16006-16569/1-575									Sagaing	Burmans
4	Burman515	M63	223 399 488 497 519	73 214 263 309+C 315+C 489	16019-16569/1-574								11756-12313=12007 12239	Magway	Burmans
4	Burman516	M63	223 399 488 497 519	73 214 263 309+C 315+C 489	16043-16569/1-574								11756-12268=12007 12239	Magway	Burmans
4	Burman517	G2a1	136 223 227 278 362	73 263 309+C 315+C 489 523+CA	16042-16569/1-574		+							Magway	Burmans
4	Burman518	B5a	111 140 183C 189 266A 519	73 210 263 315+C 522-523d	16012-16569/1-574	+								Magway	Burmans
4	Burman519	C	093 129 223 298 327 519	73 249d 263 315+C 489	16018-16569/1-574						+			Magway	Burmans
4	Burman520	D	167 223 362	73 94 263 309+C 315+C 489 523+CA	16020-16569/1-574		-	-						Magway	Burmans
4	Burman521	M91	129 223 311 327A	64 73 93 200 263 309+C 315+C 485 489	16045-16569/1-574								9278-9550=9509 9540	Magway	Burmans
4	Burman522	G	114 223 362	73 263 309+C 315+C 489	16022-16569/1-574		+							Magway	Burmans
4	Burman523	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16027-16569/1-574								13148-13660=13437	Magway	Burmans
4	Burman524	F3a	183C 189 221 298 355 362 519	73 249d 263 309+C 315+C	16017-16569/1-319					+				Magway	Burmans
4	Burman525	G	114 223 362	73 263 309+C 315+C 489	16019-16569/1-574		+							Magway	Burmans
4	Burman526	C	093 129 223 298 327 519	73 249d 263 315+C 489	16007-16569/1-574						+			Magway	Burmans
4	Burman527	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16008-16569/1-574								13084-13449=13437	Magway	Burmans
4	Burman528	M91	129 223 311 327A	64 73 93 200 263 309+C 315+C 485 489	16016-16569/1-574								9224-9700=9509 9540 9554	Magway	Burmans
4	Burman529	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16031-16569/1-574								13105-13570=13437	Magway	Burmans
4	Burman530	B5a	140 182C 183C 189 261 266A 304 519	73 152 210 263 315+C 522-523d	16040-16569/1-574	+								Magway	Burmans
4	Burman531*	M91	129 223 311 327A	64 73 93 200 263 309+C 315+C 485 489	16012-16569/1-574									Magway	Burmans
4	Burman532	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16024-16569/1-574								13085-13460=13437	Magway	Burmans
4	Burman533	G	114 223 362	73 263 309+C 315+C 489	16032-16569/1-574		+							Magway	Burmans
4	Burman534*	M63	223 399 488 497 519	73 214 263 309+C 315+C 489	16043-16569/1-574									Magway	Burmans
4	Burman535	G	114 223 362	73 263 309+C 315+C	16061-16569/1-480								4519-5226=4769 4833 4853 5108	Magway	Burmans
4	Burman536	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16012-16569/1-574					-				Magway	Burmans
4	Burman537	U2a	051 140 154 206C 230 261 311 519	73 152 263 309+C 315+C	16046-16569/1-316								12058-12465=12308 12372	Magway	Burmans
4	Burman538	M12	129 172 223 290 519	73 152 198 263 309+C 315+C	16001-16569/1-316								14600-15378=14727 14766 14783 15010 15043 15301 15326	Magway	Burmans
4	Burman539	G	114 223 362	73 263 309+C 315+C 489	16040-16569/1-574		+							Magway	Burmans
4	Burman540	D5a2	092 164 182C 183C 189 223 266 311 362	73 150 263 315+C 489 522-523d	16043-16569/1-574		-	-						Magway	Burmans
4	Burman541	C	093 223 298 311 327 519	73 249d 263 315+C 489	16013-16569/1-574						+			Magway	Burmans
4	Burman542	G2a1	136 223 227 278 362	73 263 309+C 315+C 489 523+CA	16024-16569/1-574		+							Magway	Burmans
4	Burman543	M91	129 223 287 311 327A	64 73 93 146 189 200 263 309+C 315+C 485 489	16043-16569/1-574								9218-9700=9509 9540 9554	Magway	Burmans
4	Burman544	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16038-16569/1-574								13084-13537=13437	Magway	Burmans
4	Burman545	G2a1	136 223 227 278 362	73 263 309+C 315+C 489 523+CA	16024-16569/1-574		+							Magway	Burmans
4	Burman546	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16018-16569/1-574								13111-13490=13437	Magway	Burmans
4	Burman547	U2a	051 140 154 206C 230 261 311 519	73 152 263 309+C 315+C	16008-16569/1-574								12059-12444=12308 12372	Magway	Burmans
4	Burman548	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16017-16569/1-574					-				Magway	Burmans
4	Burman549	M12	129 172 223 290 519	73 152 198 263 309+C 315+C	16012-16569/1-323								14619-15252=14727 14766 14783 15010 15043	Magway	Burmans
4	Burman550	C	093 223 298 311 327 519	73 249d 263 315+C 489	16014-16569/1-574						+			Magway	Burmans
4	Burman551	U2a	051 140 154 206C 230 261 311 519	73 152 263 309+C 315+C	16008-16569/1-574								12062-12384=12308 12372	Magway	Burmans
4	Burman552	B5a	111 140 183C 189 266A 519	73 210 263 315+C 522-523d	16016-16569/1-574	+								Magway	Burmans
4	Burman553	U2a	051 140 154 206C 230 261 311 519	73 152 263 309+C 315+C	16018-16569/1-431								12059-12462=12308 12372	Magway	Burmans
4	Burman554	G	114 223 362	63 73 263 309+C 315+C	16010-16569/1-316		+	+						Magway	Burmans
4	Burman555	M12	129 172 223 290 519	73 152 198 263 309+C 315+C	16017-16569/1-322								14626-14860=14727 14766 14783	Magway	Burmans
4	Burman556	C	093 129 223 298 327 519	73 249d 263 315+C 489	16008-16569/1-574						+			Magway	Burmans
4	Burman557	U2a	051 140 154 206C 230 261 311 519	73 153 263 309+C 315+C	16018-16569/1-574								12059-12487=12308 12372	Magway	Burmans
4	Burman558	U2a	051 140 154 206C 230 261 311 519	73 152 263 309+C 315+C	16016-16569/1-516								12509-12547=12308 12372	Magway	Burmans
4	Burman559	N21	182 193 223 260 519	73 150 195 263 315+C 337d	16014-16569/1-574								13156-13442=13437	Magway	Burmans
4	Burman560	C	093 129 223 298 327 519	73 249d 263 315+C 489	16014-16569/1-574						+			Magway	Burmans
4	Burman561	U2a	051 140 154 206C 230 261 311 519	73 152 263 309+C 315+C	16026-16569/1-574								12060-12434=12308 12372	Magway	Burmans
4	Burman562	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16017-16569/1-574					-				Magway	Burmans
4	Burman563	C	093 129 223 298 327 519	73 249d 263 315+C 489	16017-16569/1-574						+			Magway	Burmans
4	Burman564	Z	093 185 223 260 298 357	73 152 207 249d 263 309+C 315+C 489 523+CA	16018-16569/1-574								8827-9221=8860 9090	Magway	Burmans
4	Burman565	F1a1a	108 129 162 172 243 293C 304 519	73 152 249d 263 309+C 315+C	16015-16569/1-316					-				Magway	Burmans
4	Burman566	M12	129 172 182 223 290 519	73 152 198 263 309+C 315+C 489 522-523d 573+CCC	16043-16569/1-574								14592-14884=14727 14766 14783	Magway	Burmans
4	Burman567	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16017-16569/1-574								13158-13438=13437	Magway	Burmans
4	Burman568	M12	129 172 182 223 290 519	73 152 198 263 309+C 315+C 489 522-523d 573+CCC	16018-16569/1-574									Magway	Burmans
4	Burman569	M12	129 172 182 223 290 519	73 152 198 263 309+C 315+C 489 522-523d 573+CCC	16011-16569/1-574								14765-15291=14766 14783 15010 15043	Magway	Burmans
4	Burman570	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16017-16569/1-574								13107-13843=13437	Magway	Burmans
4	Burman571	U2a	051 140 154 206C 230 261 311 519	73 152 263 309+C 315+C	16007-16569/1-574								12058-12753=12308 12372	Magway	Burmans

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
4	Burman572	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16017-16569/1-574					-				Magway	Burmans
4	Burman573	G	223 362	73 207 263 309+C 315+C 489	16020-16569/1-574		+	+						Magway	Burmans
4	Burman574	F3a	183C 189 221 298 355 362 519	73 249d 263 309+C 3156+C	16017-16569/1-319					+				Magway	Burmans
4	Burman575*	M91	129 223 287 311 327A	64 73 93 146 189 200 263 309+CC 315+C 485 489	16009-16569/1-570									Magway	Burmans
4	Burman576	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16016-16569/1-574								13117-13769=13437	Magway	Burmans
4	Burman577	Z	093 185 223 260 298 357	73 152 207 249d 263 309+C 315+C 489 523+CA	16012-16569/1-574								8828-9216=8860 9090	Magway	Burmans
4	Burman578	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16010-16569/1-574			-		-				Magway	Burmans
4	Burman579	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16014-16569/1-574					-				Magway	Burmans
4	Burman580	Z	093 185 223 260 298 357	73 152 207 249d 263 309+C 315+C 489 523+CA	16022-16569/1-574								4536-5197=4715 4769	Magway	Burmans
4	Burman581	G2a1	136 223 227 278 362	73 263 309+C 315+C 489 522+CA	16043-16569/1-574		+							Magway	Burmans
4	Burman582*	M58	183 189 223 266 295 519	73 143 153 263 309+C 315+C 489	16012-16569/1-574									Magway	Burmans
4	Burman583	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16015-16569/1-574								13106-13650=13437	Magway	Burmans
4	Burman584	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16026-16569/1-574								13084-13491=13437	Magway	Burmans
4	Burman585*	M21c	093 223 249 266 301 311 519	73 263 315+C 489	16018-16569/1-574									Magway	Burmans
4	Burman586	M10	223 311 519	73 94 195 263 309+C 315+C 489 573+CCC	16007-16569/1-574								15013-15677=15040 15043 15071 15218 15301 15326	Magway	Burmans
4	Burman587	M10	223 311 519	73 94 195 263 309+C 315+C	16044-16569/1-410								15011-15757=15040 15043 15071 15218 15301 15326	Magway	Burmans
4	Burman588	M12	129 172 223 290 305	73 152 198 263 309+C 315+C 489 522-523d	16017-16569/1-573								14619-15296=14727 14766 14783 15010 15043	Magway	Burmans
4	Burman589	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16026-16569/1-574					-				Magway	Burmans
4	Burman590	M21c	093 223 249 266 301 311 519	73 263 315+C 489	16023-16569/1-574								11375-11856=11482 11719	Magway	Burmans
4	Burman591	Z	093 185 223 260 298 357	73 152 207 249d 263 309+C 315+C 489 523+CA	16014-16569/1-574								15630-16082=15784 15884 15928	Magway	Burmans
4	Burman592*	M84	129 223 258d 272 519	73 185 195 263 315+C 489	16006-16569/1-574								1513-2000=1719 1809	Magway	Burmans
4	Burman593	M91	129 223 287 311 327A	64 73 93 146 189 200 263 309+C 315+C 485 489	16044-16569/1-319/367-574								9256-9650=9509 9540 9554	Magway	Burmans
4	Burman594	M91	129 223 311 327A 362H	64 73 93 200 263 309+C 315+C 485 489	16017-16569/1-574								9222-9736=9509 9540 9554	Magway	Burmans
4	Burman595	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16026-16569/1-574					-				Magway	Burmans
4	Burman596	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16043-16569/1-574					-				Magway	Burmans
4	Burman597	C	093 129 223 298 327 519	73 249d 263 315+C 489	16022-16569/1-574						+			Magway	Burmans
4	Burman598	D	167 223 362	73 94 263 309+C 315+C 489 523+CA	16032-16569/1-573			-						Magway	Burmans
4	Burman599	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16019-16569/1-574					-				Magway	Burmans
4	Burman600	N21	182 193 223 260 310 519	73 150 195 214 263 315+C 337d	16031-16569/1-574								13110-13737=13437	Magway	Burmans
4	Burman601	M63	223 399 488 497 519	73 214 263 309+C 315+C 489	16032-16569/1-574								11726-12246=12007 12239	Magway	Burmans
4	Burman602	B5a	111 140 183C 189 266A 519	73 210 263 315+C 522-523d	16004-16569/1-574	+								Magway	Burmans
4	Burman603	D	167 223 362	73 94 263 309+C 315+C 489 523+CA	16032-16569/1-574		-	-						Magway	Burmans
4	Burman604	G2a1	136 223 227 278 362	73 263 309+C 315+C 489 523+CA	16010-16569/1-574		+							Magway	Burmans
4	Burman605	D	167 223 362	73 94 263 309+C 315+C 489 523+CA	16018-16569/1-574		-	-						Magway	Burmans
4	Burman606*	M90	086 223 381 390	73 150 227 263 309+C 315+C 489	16021-16569/1-514									Magway	Burmans
4	Burman607	A	189 223 290 319	64 73 151 152 235 263 315+C 522-523d	16018-16569/1-574									Magway	Burmans
4	Burman608	A	189 223 290 319	64 73 151 152 235 263 315+C 522-523d	16018-16569/1-574									Magway	Burmans
4	Burman609	D4g2a	223 274 362	73 150 263 298 309+C 315+C 489	16001-16569/1-574									Magway	Burmans
4	Burman610	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C	16016-16569/1-392								4257-4806=4491 4769	Magway	Burmans
4	Burman611	B5a	140 182C 183C 189 260 261 266A 519	73 152 210 263 309+CC 315+C	16023-16569/1-316	+								Magway	Burmans
4	Burman612*	M33a	075 136 223 519	8T 12 73 263 309+C 315+C 489 513 519	16019-16569/1-574									Magway	Burmans
4	Burman613*	R22a	169 249 265C 288 293 304 519	73 152 199 263 309+C 315+C 329	16022-16569/1-574									Magway	Burmans
4	Burman614*	N21	189 223 519	73 150 195 263 309+C 315+C 337d	16024-16569/1-478									Magway	Burmans
4	Burman615	M83	129 223 519 527	73 263 309+C 315+C 356+C 489	16010-16569/1-574								7903-8488=8059 8143 8307	Magway	Burmans
4	Burman616	G1	184 223 290 362 519	73 152 263 309+C 315+C 489	16044-16569/1-574								4520-5025=4769 4833; 8245-9027=8701 8860 8940	Magway	Burmans
4	Burman617	M50a	042 093 223 248 263 311 519	73 152 263 315+C 356+C 489 522-523d	16015-16569/1-574								15012-15853=15043 15119 15301 15326 15663	Magway	Burmans
4	Burman618*	M50a	042 093 223 248 263 311 519	73 152 263 315+C 356+C 489 522-523d	16014-16569/1-574								15011-15275=15043 15119	Magway	Burmans
4	Burman619	D5a2	092 172 182C 183C 189 223 266 362	73 150 189 263 309+C 315+C 489 522-523d	16019-16569/1-574		-	-						Magway	Burmans
4	Burman620	A	223 290 319 362 519	73 151 152 200 235 263 315+C	16026-16569/1-506									Magway	Burmans
4	Burman621*	M3c	086 126 223 519	66T 73 152 263 309+C 315+C 482 489 522-523d	16018-16569/1-574									Magway	Burmans
4	Burman622*	M83	129 223 519 527	73 263 309+C 315+C	16023-16569/1-323									Magway	Burmans
4	Burman623	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16021-16569/1-574								5833-6365=5910 6023 6253	Magway	Burmans
4	Burman624	C	051 223 298 327	73 195 249d 263 309+C 315+C 489	16004-16569/1-574						+			Magway	Burmans
4	Burman625	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	16007-16569/1-574								5811-6270=5910 6023 6253	Magway	Burmans
4	Burman626	F1a	129 172 304 519	73 249d 263 315+C 522-523d	16004-16569/1-574					-				Magway	Burmans
4	Burman627	U2	051 318	73 146 263 309+C 315+C	16012-16569/1-574								12068-12276=12106	Magway	Burmans
4	Burman628	C	223 298 327 354 357 519	73 93 249d 263 309+C 315+C	16029-16569/1-323						+			Magway	Burmans
4	Burman629	D5a2	092 172 182C 183C 189 223 266 362	73 150 263 309+C 315+C 489 522-523d	16013-16569/1-574		-	-						Magway	Burmans
4	Burman630	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C 489	16012-16569/1-506								4237-4697=4491	Magway	Burmans
4	Burman631*	M46	223 278 327 343T 519	73 146 152 189 196+T 309+C 315+C 489 522-523d	16007-16569/1-551									Magway	Burmans
4	Burman632	A	189 223 290 319	64 73 151 152 235 263 315+C 522-523d	16030-16569/1-574									Magway	Burmans
4	Burman633	N21	182 193 223 260 519	73 150 195 263 309+C 315+C 337d	16012-16569/1-572								13089-13499=13437	Magway	Burmans
4	Burman634	M90	086 223 381 390	73 150 227 263 309+C 315+C 489	16024-16569/1-441								5831-6278=5910 6023 6253	Magway	Burmans
4	Burman635	A	189 223 290 319	64 73 151 152 235 263 315+C 522-523d	16007-16569/1-574									Magway	Burmans
4	Burman636	M90	086 223 381 390	73 150 227 263 309+C 315+C 489	16017-16569/1-574								5821-6204=5910 6023	Magway	Burmans

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
5	Burman650	N21	093 182 193 223 260 519	73 150 195 263 309+C 315+C 337d	16008-16569/1-468								13089-13672=13437	Bago	Burmans
5	Burman651	F1	172 304 519	73 249d 263 315+C 522-523d	16008-16569/1-574								6364-6816=6392 6515	Bago	Burmans
5	Burman652	M84	183d 223 224 258d 272 519	73 146 185 263 309+C 315+C 489	16043-16569/1-599								1502-2000=1719	Bago	Burmans
5	Burman653	D5	189 223 362 519	73 150 309+CC 315+C 456 489	16043-16569/1-596		-	-						Bago	Burmans
5	Burman654	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 315+C 329	16042-16569/1-596								12600-12796=12609	Bago	Burmans
5	Burman655	M13b	145 168 188 223 257 311 519	73 152 263 315+C 489 513	16018-16569/1-596								10187-10744=10373 10398 10400 10411	Bago	Burmans
5	Burman656	A	223 256 290 319 362	73 151 152 200 235 263 315+C 522-523d	16014-16569/1-596									Bago	Burmans
5	Burman657	M20	086 129 209 223 272 519	73 152 225 249d 263 315+C 316 489 522-523d	16018-16569/1-590								12053-12615=12354; 14076-14704=14110	Bago	Burmans
5	Burman658	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 315+C 329	16045-16569/1-562								12596-12958=12609; 13085-13599=13359	Bago	Burmans
5	Burman659	F1a	129 169 172 304 519	73 249d 263 309+CC 315+C 522-523d	16018-16569/1-497					-				Bago	Burmans
5	Burman660	M10	223 254 311 519	73 94 195 263 309+C 315+C 489	16013-16569/1-572								15012-15720=15040 15043 15071 15218 15301 15326	Bago	Burmans
5	Burman661	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16012-16569/1-585					-				Bago	Burmans
5	Burman662	A	223 256 290 319 362	73 151 152 200 235 263 315+C 522-523d	16012-16569/1-572									Bago	Burmans
5	Burman663	M5a2a1	129 223 264 265C 311 519	73 263 309+C 315+C 489	16077-16569/1-559								14077-14597=14323	Bago	Burmans
5	Burman664	F1c	111 129 189 304 519	73 152 185 234 249d 263 315+C 522-523d	16024-16569/1-599					-				Bago	Burmans
5	Burman665	F1a	129 172 304 519	73 249d 263 315+C 522-523d	16068-16569/1-565					-				Bago	Burmans
5	Burman666	G2a1	136 223 227 278 362	73 263 309+C 315+C	16012-16569/1-423		+	+						Bago	Burmans
5	Burman667	F1	189 284 304 362 519	73 146 249d 263 315+C 522-523d	16011-16569/1-586					-				Bago	Burmans
5	Burman668	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16018-16569/1-586					-				Bago	Burmans
5	Burman669	F2a	092A 189 243 291 304	73 207 249d 263 309+C 315+C	16013-16569/1-316					+				Bago	Burmans
5	Burman670	F2a	092A 189 243 291 304	73 207 249d 263 309+C 315+C	16041-16569/1-316					+				Bago	Burmans
5	Burman671	G2a	129 223 278 362	73 150 263 309+C 315+C 489	16059-16569/1-555								4520-5175=4769 4833 4967 5108	Bago	Burmans
5	Burman672	M49	223 234 302 519	73 263 309+C 315+C 489 498d	16043-16569/1-596								3669-4200=3780	Bago	Burmans
5	Burman673*	M76	124 183C 189 278 293C 326 362	73 263 309+CC	16000-16569/1-315									Bago	Burmans
5	Burman674	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16024-16569/1-596									Bago	Burmans
5	Burman675*	M21a	129 223 256 526	73 263 309+C 315+C 489	16014-16569/1-586								15011-15614=15043 15301 15326	Bago	Burmans
5	Burman676	B5a	140 183C 189 266A 519	73 146 210 263 309+CC 315+C	16012-16569/1-362	+								Bago	Burmans
5	Burman677	D	174 223 257 311 362	73 152 263 315+C 489	16012-16569/1-599		-	-						Bago	Burmans
5	Burman678	N21	093 182 193 223 260 519	73 150 195 263 309+C 315+C 337d	16011-16569/1-599								13107-13820=13437	Bago	Burmans
5	Burman679	F1	183C 189 519	73 249d 263 263 309+C 315+C	16012-16569/1-323					-				Bago	Burmans
5	Burman680	A	223 256 290 319 362	73 151 152 200 235 263 315+C 522-523d	16018-16569/1-596									Bago	Burmans
5	Burman681*	M45	223 519	73 146 152 263 309+C 315+C 489	16016-16569/1-596									Bago	Burmans
5	Burman682	F1a	058T 129 169 172 304 519	73 249d 263 309+CC 315+C 522-523d	16012-16569/1-596					-				Bago	Burmans
5	Burman683	M38	189 223 256 519	73 239 246 263 309+C 315+C 489	16027-16569/1-595								15011-15650=15043 15262 15301 15314 15326 15487	Bago	Burmans
5	Burman684	C	183C 189 223 249 298 327 357 519	73 249d 263 309+CC	16045-16569/1-309						+			Bago	Burmans
5	Burman685	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16018-16569/1-596									Bago	Burmans
5	Burman686	M49	223 234 302 519	73 263 309+C 315+C	16012-16569/1-316								3677-4020=3780	Bago	Burmans
5	Burman687	F1c	111 129 266 304 519	73 152 249d 263 309+C 315+C	16018-16569/1-316					-				Bago	Burmans
5	Burman688	F1c	111 129 189 304 519	73 152 185 234 249d 263 315+C 522-523d	16017-16569/1-598					-				Bago	Burmans
5	Burman689*	R21	172 182C 183C 189 278 356 399 519	73 263 309+C 315+C 455+T 460 463+CC	16018-16569/1-464								12059-12782=rCRS; 14614-14700=rCRS	Bago	Burmans
5	Burman690	M20	086 129 209 223 272 519	73 152 225 249d 263 315+C 316 489 522-523d	16008-16569/1-588								12036-12513=12354; 14072-14700=14110	Bago	Burmans
5	Burman691*	M38	189 223 256 519	73 239 246 263 309+C 315+C 489	16021-16569/1-573									Bago	Burmans
5	Burman692	F1a1a	093 108 129 162 172 259A 304 519	73 249d 263 315+C 489 522-523d	16075-16569/1-596					-				Bago	Burmans
5	Burman693	F1a	129 172 304 519	73 249d 263 309+C 315+C 522-523d	16043-16569/1-586					-				Bago	Burmans
5	Burman694	B5a	140 182C 183C 189 250 261 266A 519	73 152 210 263 309+CCC 315+C	16043-16569/1-316	+								Bago	Burmans
5	Burman695	A	223 256 290 319 362	73 151 152 200 235 263 315+C 522-523d	16013-16569/1-598									Bago	Burmans
5	Burman696	M7b1	129 192 223 297	73 150 199 263 309+C 315+C 489	16035-16569/1-488				+					Bago	Burmans
5	Burman697	F1	189 284 304 362 519	73 146 249d 263 315+C	16086-16569/1-496					-				Bago	Burmans
5	Burman698	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16012-16569/1-586									Bago	Burmans
5	Burman699	M74	093 146 223 311 362 519	73 263 315+C 489	16016-16569/1-539								4517-5214=4769 5054; 15007-15734=15043 15301 15326	Bago	Burmans
5	Burman700	M9a1b1	158 223 234 362 519	73 150 152	16017-16569/1-161								4244-4961=4491 4769	Bago	Burmans
5	Burman701	F1c	111 129 189 304 519	73 152 185 234 249d 263 315+C	16013-16569/1-316					-				Bago	Burmans
5	Burman702*	M24	075 223 311 327 519	73 146 152 195 263 315+C	16021-16569/1-316									Bago	Burmans
5	Burman703	F1a1a	093 108 129 162 172 259A 304 519	73 249d 263 315+C 482 522-523d	16010-16569/1-574					-				Bago	Burmans
5	Burman704	F1a1a	093 108 129 162 272 259A 304 519	73 249d 263 315+C 482 522-523d	16018-16569/1-574					-				Bago	Burmans
5	Burman705	M5a2a1	129 223 264 265C 311 519	73 263 309+C 315+C	16012-16569/1-316								4520-5223=4769; 15018-15659=15043 15262 15301 15326	Bago	Burmans
5	Burman706	M10	223 254 311 519	73 94 195 263 309+C 315+C	16001-16569/1-396								15625-16240=15924 16223	Bago	Burmans
5	Burman707	F1c	111 129 266 304 519	73 152 249d 263 309+C 315+C 522-523d	16001-16569/1-574					-				Bago	Burmans
5	Burman708	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 315+C 329	16001-16569/1-460								12599-12818=12609; 13084-13383=13359	Bago	Burmans
5	Burman709	M20	086 129 209 223 272 519	73 152 225 249d 263 315+C 316 489	16012-16569/1-510								12040-12433=12354; 14075-14254=14110?	Bago	Burmans
5	Burman710	F1	189 284 304 362 519	73 146 249d 263 315+C 522-523d	16020-16569/1-574					-				Bago	Burmans
5	Burman711	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 315+C 329	16021-16569/1-574								12595-12966=12609; 13084-13375=13359	Bago	Burmans
5	Burman712*	M5a2a1	129 223 264 265C 311 519	73 263 309+C 315+C 489	16018-16569/1-574									Bago	Burmans
5	Burman713	B5a	140 182C 183C 189 261 266A 304 519	73 152 210 263 309+CC 315+C 522-523d	16013-16569/1-574	+								Bago	Burmans
5	Burman714	M38	189 223 256 519	73 239 246 263 309+C 315+C	16001-16569/1-316								15011-15679=15043 15262 15301 15314 15326 15487	Bago	Burmans

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
5	Burman715	D5	189 223 362 519	73 150 309+CC 315+C	16021-16569/1-316		-	-						Bago	Burmans
5	Burman716*	M54	145 172 188 189 192 223 293 304 318 519	73 263 315+C 489	16021-16569/1-574									Bago	Burmans
5	Burman717	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 315+C 329	16012-16569/1-347								12595-12958=12609; 13078-13541=13359	Bago	Burmans
5	Burman718	D4	201 223 362	73 152 263 315+C 489 522-523d	16011-16569/1-574		-	-						Bago	Burmans
6	Burman719	M7h	086 129 223 311	73 200 263 315+C 489	16043-16569/1-585								15012-15731=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman720	M58	183 189 193d 223 266 295 519	73 143 153 263 309+C 315+C 489	16050-16569/1-510								15617-16192=15924 16183 16189	Ayeyarwady	Burmans
6	Burman721	M12	129 172 223 290 519	73 152 198 263 309+CC 315+C 489 522-523d	16006-16569/1-575								14618-15055=14727 14766 14783 15010 15043	Ayeyarwady	Burmans
6	Burman722*	M60a	223 284 319 519	73 263 315+C 489 522-523d	16023-16569/1-596									Ayeyarwady	Burmans
6	Burman723*	M35b	223 519	73 199 263 315+C 489	16032-16569/1-495				-				6358-6876=rCRS	Ayeyarwady	Burmans
6	Burman724	M12	129 172 223 290 519	73 152 198 263 309+CC 315+C	16032-16569/1-328								14615-15490=14727 14766 14783 15010 15043 15301 15326	Ayeyarwady	Burmans
6	Burman725	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-504								12005-12435=12405; 15001-15770=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman726	M12	129 172 223 290 519	73 152 198 263 309+CC 315+C	16013-16569/1-316								14620-15530=14727 14766 14783 15010 15043 15301 15326	Ayeyarwady	Burmans
6	Burman727	M2c	182C 183C 189 223 227 258C 263	73 263 447G 489	16007-16569/1-552								15410-15986=15670 15929	Ayeyarwady	Burmans
6	Burman728*	M49	153 213 223 234 257 294 519 527	73 263 309+C 315+C 489	16012-16569/1-504									Ayeyarwady	Burmans
6	Burman729	M38	092 111 184 223 519	73 246 263 315+C 489	16010-16569/1-597								15011-15600=15043 15301 15314 15326 15487	Ayeyarwady	Burmans
6	Burman730	B4c2	183C 184A 189 217 235 519	73 263 309+CC 315+C	16012-16569/1-506	+								Ayeyarwady	Burmans
6	Burman731	M7h	086 129 223 311	73 263 315+C 485+C 486+A 487	16018-16569/1-598								9818-10074=9824; 12058-12435=12405; 15010-15312=15043 15301	Ayeyarwady	Burmans
6	Burman732*	M24	086 223 278 519	73 146 195 263 309+C 315+C	16032-16569/1-316								5831-6103=rCRS	Ayeyarwady	Burmans
6	Burman733	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-599								9824-9978=rCRS (No 9824?); 15015-15700=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman734	D	192 223 256 311 362 519	73 146 200 228 263 309+C 315+C 489	16017-16569/1-600								4520-5118=4769 4883; 15010-15633=15043 15301 15326	Ayeyarwady	Burmans
6	Burman735	D	192 223 256 311 362 519	73 146 200 228 263 309+C 315+C 489	16023-16569/1-515								4520-5250=4769 4883 5178A; 15011-15780=15043 15301 15326	Ayeyarwady	Burmans
6	Burman736	M7h	086 129 223 311	73 263 315+C 489	16020-16569/1-599								9817-10153=9824; 12058-12432=12405; 15005-15259=15043	Ayeyarwady	Burmans
6	Burman737	D	192 223 256 311 362 519	73 146 200 228 263 309+C 315+C 489	16008-16569/1-515								4519-5111=4769 4883; 15011-15782=15043 15301 15326	Ayeyarwady	Burmans
6	Burman738	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-566								9817-10030=9824; 12060-12417=12405; 15011-15870=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman739	R9b	124 148 304 309 327 390 519	73 263 309+C 315+C	16018-16569/1-563									Ayeyarwady	Burmans
6	Burman740	D5a2	092 172 182C 183C 189 223 266 362	73 150 263 309+C 315+C	16016-16569/1-316		-	-						Ayeyarwady	Burmans
6	Burman741	M9a1b1	086 158 223 234 356 362 519	73 150 152 153 263 315+C 489	16012-16569/1-597								4237-4961=4491 4769	Ayeyarwady	Burmans
6	Burman742	G	174 223 239 362	73 214 263 315+C 356+C 489	16012-16569/1-539		+	+						Ayeyarwady	Burmans
6	Burman743	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-590								9812-12027=9824; 12060-12425=12405; 15008-15817=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman744	N21	093 182 193 223 260 519	73 150 195 263 309+C 315+C 337d	16012-16569/1-460								13084-13672=13437	Ayeyarwady	Burmans
6	Burman745	M58	183 189 223 266 295 519	73 143 153 263 309+C 315+C 489	16012-16569/1-505								15625-16200=15924 16183 16189	Ayeyarwady	Burmans
6	Burman746	U2	051 114A	73 146 215 263 309+C 315+C	16017-16569/1-563								12058-12284=12106	Ayeyarwady	Burmans
6	Burman747	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-593								9817-10171=9824; 12059-12203=rCRS; 15008-15699=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman748*	M4a	145 176 223 232 261 311 519	73 146 194 263 309+C 315+C 489	16010-16569/1-566									Ayeyarwady	Burmans
6	Burman749	A	223 274 290 319 362 527	73 152 235 263 315+C 522-523d	16013-16569/1-591									Ayeyarwady	Burmans
6	Burman750	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-592								9817-10210=9824; 12059-12420=12405; 15017-15633=15043 15301 15326	Ayeyarwady	Burmans
6	Burman751	M7b	129 223 297 357	73 150 199 263 315+C 489	16012-16569/1-592				+					Ayeyarwady	Burmans
6	Burman752	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-513								9817-10256=9824; 12058-12541=12405; 15010-15473=15043 15301 15326	Ayeyarwady	Burmans
6	Burman753	B4c2	183C 184A 189 217 235 519	73 263 309+CC 315+C	16023-16569/1-316	+								Ayeyarwady	Burmans
6	Burman754	G	174 223 239 362	73 214 263 315+C 356+C 489	16008-16569/1-504		+	+						Ayeyarwady	Burmans
6	Burman755*	M24	086 223 278 519	73 146 195 263 315+C	16022-16569/1-476									Ayeyarwady	Burmans
6	Burman756	M7h	086 129 223 311	73 263 315+C 489	16017-16569/1-579								12058-12407=12405?; 15011-15864=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman757	M9a1b1	086 158 223 234 356 362 519	73 150 152 153 263	16012-16569/1-275								4242-4877=4491 4769	Ayeyarwady	Burmans
6	Burman758	R9b	124 148 304 309 327 390 519	73 263 309+C 315+C	16012-16569/1-563								12593-13177=12714	Ayeyarwady	Burmans
6	Burman759	M38	092 111 184 223 519	73 246 263 315+C 489	16012-16569/1-575								15012-15613=15043 15301 15314 15326 15487	Ayeyarwady	Burmans
6	Burman760	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C 489	16009-16569/1-563								4238-4907=4491 4769	Ayeyarwady	Burmans
6	Burman761	D4	189 201 223 362	73 152 234 263 309+C 315+C 489	16007-16569/1-574		-	-						Ayeyarwady	Burmans
6	Burman762	M49	153 213 223 234 257 294 519 527	73 263 309+C 315+C 489	16032-16569/1-504								3682-3829=3780	Ayeyarwady	Burmans
6	Burman763	M58	183 189 223 266 295 519	73 143 153 263 309+C 3159+C	16033-16569/1-316								15616-16192=15924 16183 16189	Ayeyarwady	Burmans
6	Burman764	M20	086 129 209 223 272 519	73 152 225 249d 263 309+C 315+C 316	16017-16569/1-352								12045-12396=12354; 14086-14460=14110	Ayeyarwady	Burmans
6	Burman765	M7h	086 129 223 311	73 263 315+C 489	16008-16569/1-565								9814-10273=9824; 12059-12432=12405; 15012-15861=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman766	M7h	086 129 223 311	73 263 315+C 489	16014-16569/1-589								9817-10188=9824; 12059-12430=12405; 15011-15752=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman767	M83	311 319 357	73 152 263 315+C 356+C	16038-16569/1-468								15412-15998=15670 15941	Ayeyarwady	Burmans
6	Burman768	M7h	086 129 223 311	73 263 315+C 489	16014-16569/1-600								9817-10160=9824; 12060-12534=12405; 15011-15731=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman769	M7h	086 129 223 311	73 263 315+C 489	16019-16569/1-565								9817-9978=9824; 12058-12450=12405; 15011-15789=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman770	M7h	086 129 223 311	73 263 315+C 489	16016-16569/1-590								9819-10021=9824; 12059-12440=12405; 15011-15176=15043	Ayeyarwady	Burmans
6	Burman771	F1a	129 172 304 519	73 152 249d 263 315+C 522-523d 573+C	16013-16569/1-596					-				Ayeyarwady	Burmans
6	Burman772	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-566								9816-9941=9824; 12058-12439=12405; 15011-15821=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman773	F1	183C 189 213 304 519	73 249d 263 309+CC 315+C	16012-16569/1-316					-				Ayeyarwady	Burmans
6	Burman774	F1	183C 189 213 304 519	73 249d 263 309+CC 315+C	16012-16569/1-316					-				Ayeyarwady	Burmans
6	Burman775	M83	311 319 357	73 152 263 315+C 356+C 489	16029-16569/1-590								15426-16056=15670 15941	Ayeyarwady	Burmans
6	Burman776	G	174 223 239 362	73 214 263 315+C 356+C 489	16012-16569/1-573		+	+						Ayeyarwady	Burmans
6	Burman777	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-593								12060-12435=12405; 15012-15697=15043 15301 15326 15676	Ayeyarwady	Burmans
6	Burman778	F1	183C 189 213 304 519	73 249d 263 309+CC 315+C	16023-16569/1-316					-				Ayeyarwady	Burmans
6	Burman780	M7h	086 129 223 311	73 263 315+C 489	16013-16569/1-574								9817-9911=9824; 15012-15763=15043 15301 15326 15676	Ayeyarwady	Burmans

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
6	Burman781	M7b1	129 192 223 297	73 150 199 263 309+C 315+C 489	16029-16569/1-572				+					Ayeyarwady	Burmans
6	Burman782	R9b	124 148 304 309 327 390 519	73 263 309+C 315+C	16014-16569/1-574								12600-12754=12714	Ayeyarwady	Burmans
6	Burman783	D4	192 223 256 311 362 519	73 146 200 228 263 309+C 315+C 489	16013-16569/1-574		-	-						Ayeyarwady	Burmans
6	Burman784	M49	223 234 519	73 263 309+C 315+C 489	16012-16569/1-574								3678-4281=3780	Ayeyarwady	Burmans
6	Burman785	M12	129 172 223 290 519	73 152 198 263 309+C 315+C	16018-16569/1-316								14613-15300=14727 14766 14783 15010 15043	Ayeyarwady	Burmans
6	Burman786	B4c2	183C 184A 189 217 235 519	73 263 309+CC 315+C	16013-16569/1-574	+								Ayeyarwady	Burmans
6	Burman787	M38	092 111 184 223 519	73 246 263 315+C 489	16013-16569/1-574								15003-15571=15043 15301 15314 15326 15487	Ayeyarwady	Burmans
6	Burman788	G2a1	136 223 227 278 362	73 263 309+C 315+C 489 523+CA	16014-16569/1-574		+	+						Ayeyarwady	Burmans
6	Burman789	D5a2	092 164 182C 183C 189 223 266 362	73 150 228 263 309+CC 315+C 363? 489 522-523d	16012-16569/1-574		-	-						Ayeyarwady	Burmans
6	Burman790	A	214 223 290 311G 319 362	73 215 235 263 315+C 522-523d	16012-16569/1-574									Ayeyarwady	Burmans
6	Burman791	M7a	093 145 169 209 223 266 317T 324 362 519	73 146 199 263 309+C 315+C 489 520	16013-16569/1-574				+					Ayeyarwady	Burmans
7	Burman118	C	223 298 327 519	73 146 249d 263 315+C 489	16014-16569/1-575					-			13076-13307=13236	Chin	Chin
7	Burman119	D	209 223 362 519	73 263 315+C 489 522-523d	16018-16569/1-575		-	-						Chin	Chin
7	Burman120	D	209 223 362 519	73 263 315+C	16007-16569/1-316		-	-						Chin	Chin
7	Burman121	F1	189 304 311 519	73 146 249d 263 309+C 315+C 522-523d	16007-16569/1-575					-				Chin	Chin
7	Burman122	F1	189 304 311 519	73 146 249d 263 309+C 315+C	16007-16569/1-494					-				Chin	Chin
7	Burman123	M33b	093 223 266 324 355 362 391 519	73 146 263 309+C 315+C 489	16012-16569/1-575								3200-3675=3221	Chin	Chin
7	Burman124	C	223 298 327 519	73 146 249d 263 315+C 489	16012-16569/1-533								13084-13513=13263	Chin	Chin
7	Burman125	M84	223 258d 272 519	73 185 263 315+C 489	16015-16569/1-575								11033-11817=11191 11719	Chin	Chin
7	Burman126	F1	189 304 311 519	73 146 249d 263 309+C 315+C 522-523d	16032-16569/1-575								6365-6860=6392	Chin	Chin
7	Burman127	D4	209 223 362 519	73 263 315+C 489 522-523d	16015-16569/1-575								11003-11756=11719; 14076-14697=14668	Chin	Chin
7	Burman128	F1	304 311 519	73 146 249d 263 309+C 315+C 522-523d 549	16224-16569/1-563								11003-11814=11440 11719; 14074-14703=rCRS	Chin	Chin
7	Burman129	C	223 298 327 519	73 146 249d 263 315+C 489	16013-16569/1-575								11022-11875=11719; 13076-13664=rCRS; 14078-14689=14318	Chin	Chin
7	Burman130	D4	209 223 362 519	73 152H 263 315+C	16010-16569/1-408								11022-11775=11719; 14072-14694=14668	Chin	Chin
7	Burman131*	M84	093 223 258d 272 519	73 185 188 195 263 315+C	16008-16569/1-371									Chin	Chin
7	Burman132	F1	189 304 311 400 519	73 146 249d 263 315+C	16021-16569/1-400					-				Chin	Chin
7	Burman133	F1	189 304 311 519	73 146 249d 263 309+C 315+C	16023-16569/1-316					-				Chin	Chin
7	Burman134	F1	189 304 311 519	73 146 249d 263 309+C 315+C	16012-16569/1-316					-				Chin	Chin
7	Burman135	M33b	093 223 266 324 355 362 391 519	73 146 263 309+C 315+C 489	16012-16569/1-504								3202-3676=3221	Chin	Chin
7	Burman136	M84	223 258d 272 519	73 185 263 315+C 489	16004-16569/1-575								1529-1839=1719	Chin	Chin
7	Burman137	D	092 223 311 362 519	73 94 214 262 263 315+C 489	16019-16569/1-574								4520-5105=4769 4883	Chin	Chin
7	Burman138	M84	223 258d 272 519	73 185 263 315+C 489	16014-16569/1-575								1634-1762=1719	Chin	Chin
7	Burman139	M84	223 258d 272 519	73 185 263 315+C 489	16011-16569/1-504								1703-1731=1719	Chin	Chin
7	Burman140	F1	189 304 311 519	73 146 249d 263 309+CC 315+C	16012-16569/1-316					-				Chin	Chin
7	Burman141	M9a1a2	145 223 234 316 519	73 153 263 309+C 315+C	16022-16569/1-316								4243-4875=4491 4769	Chin	Chin
7	Burman142	F1	189 304 311 519	73 146 249d 263 309+CC 315+C	16018-16569/1-316					-				Chin	Chin
7	Burman143	D	092 223 311 362	73 94 262 263 315+C 489	16012-16569/1-575								4628-4912=4769 4883	Chin	Chin
7	Burman144	M33b	093 223 266 324 355 362 391 519	73 146 263	16012-16569/1-290								3217-3627=3221; 11033-11845=11719; 14084-14323=rCRS	Chin	Chin
7	Burman145	A	223 274 290 304 319 356 362	73 152 235 263 309+CC 315+C 469+A 522-523d 549	16012-16569/1-486									Chin	Chin
7	Burman146	M55	136 217 223 319 381	73 94 173 204 263 315+C 469+A 482 489	16012-16569/1-575								9243-9539=9447	Chin	Chin
7	Burman147	A	223 290 319 362 519	73 151 152 200 235 263 315+C 469+A 522-523d	16013-16569/1-575									Chin	Chin
7	Burman148	F1	189 304 311 519	73 146 249d 263 309+C 315+C	16008-16569/1-366								6364-6640=6392	Chin	Chin
7	Burman149	Z	185 189 223 260 298 519	73 152 249d 263 315+C 489	16013-16569/1-575									Chin	Chin
7	Burman150	M84	223 258d 272 519	73 185 263 315+C 489	16007-16569/1-575								1502-2000=1719 1809	Chin	Chin
7	Burman151	M84	223 258d 272 519	73 185 263 315+C	16026-16569/1-316								1513-1900=1719 1809	Chin	Chin
7	Burman152	D	092 223 311 362	73 94 262 263 315+C	16015-16569/1-463								4519-5223=4769 4883 5178A	Chin	Chin
7	Burman153	C	223 298 327 519	73 146 249d 263 315+C 489	16021-16569/1-498						+			Chin	Chin
7	Burman154	M33b	093 223 266 324 355 362 391 519	73 146 263 309+C 315+C 489	16011-16569/1-575								3213-3652=3221	Chin	Chin
7	Burman155	F1	189 304 311 519	73 146 234 249d 263 309+CC 315+C	16020-16569/1-316					-				Chin	Chin
7	Burman156	M33b	093 223 266 324 355 362 391 519	73 146 263 309+C 315+C	16013-16569/1-316								3200-3408=3221	Chin	Chin
7	Burman157	M84	223 258d 272 519	73 185 263 315+C	16019-16522/45-316								1624-1764=1719	Chin	Chin
7	Burman158	M84	223 258d 272 519	73 185 263 315+C	16022-16569/1-316								1690-1856=1719 1809	Chin	Chin
7	Burman159	M84	223 258d 272 519	73 185 263 315+C 489	16012-16569/1-575									Chin	Chin
7	Burman160	F1	189 304 311 519	73 146 249d 263 309+C 315+C 522-523d	16012-16569/1-575					-				Chin	Chin
7	Burman161	M9a	223 234 362 519	73 150 152 153 263 315+C 489 522-523d	16015-16569/1-575								4237-4803=4491 4769	Chin	Chin
7	Burman162	C	223 298 327 519	73 146 249d 263 315+C 489	16021-16569/1-575						+			Chin	Chin
7	Burman163	C	223 298 327 519	73 146 249d 263 315+C 489	16012-16569/1-575						+			Chin	Chin
7	Burman164	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489	16018-16569/1-544								9250-9551=9447 9540	Chin	Chin
7	Burman165	M84	223 258d 272 519	73 185 263 315+C 489	16013-16569/1-537								1624-1936=1719 1809	Chin	Chin
7	Burman166	M84	223 258d 272 519	73 185 263 315+C	16021-16569/1-316								1563-1897=1719 1809	Chin	Chin
7	Burman167	D	092 223 311 362	73 94 262 263 315+C	16019-16569/1-316								4519-5211=4769 4883 5178A; 15006-15673=15043 15301 15326	Chin	Chin
7	Burman168	M84	093 223 258d 272 519	73 185 188 195 263 315+C 489	16021-16569/1-575								1592-1929=1719 1809	Chin	Chin
7	Burman169	D	092 223 311 362	73 94 262 263 315+C 489	16023-16569/1-575								4530-4912=4769 4883; 15002-15674=15043 15301 15326	Chin	Chin
7	Burman170*	M84	223 247 258d 272 519	73 185 263 315+C 456 489	16013-16569/1-503								1626-1962=rCRS	Chin	Chin
7	Burman171*	M84	223 258C 272 519	73 185 263 309+C 315+C 489 522-523d	16013-16569/1-575								14079-14595=14110	Chin	Chin

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
7	Burman172	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489	16012-16569/1-572								9217-9660=9447 9540	Chin	Chin
7	Burman173	K	093 224 311 362 519	73 263 315+C 497 523+CA	16007-16569/1-516									Chin	Chin
7	Burman174	M51	093 278 519	73 152 263 309+C 315+C 356+C 368 489	16007-16569/1-511									Chin	Chin
7	Burman175	G1	051 184 223 290 362 519	73 263 309+CC 315+C 489	16013-16569/1-517								4520-5212=4769 4833 4841 5108	Chin	Chin
8	Burman227	M51	223 278 519	73 150 152 263 309+C 315+C 489	16007-16569/1-504								14079-14577=14110 14167? 14356? 14527	Chin	Chin
8	Burman228	U2	051 110 318	73 146 263 523+CA	16044-16569/1-575								1502-2196=1598 1811	Chin	Chin
8	Burman229	G	213 223 246T 311 362 519	73 195 263 315+C 489	16085-16569/1-574		+	+						Chin	Chin
8	Burman230	Z	185 189 193d 223 260 298 311 362 519	73 152 249d 263 315+C 489	16007-16569/1-574								8831-9219=8860 9090	Chin	Chin
8	Burman231	A5a	187 223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16024-16569/1-558									Chin	Chin
8	Burman232	F1	189 284 304 362 519	73 146 152 249d 263 309+C 315+C 523d	16008-16569/1-574					-				Chin	Chin
8	Burman233*	M84	223 258C 262+C 272 519	73 185 189 263 315+C 489	15015-16569/1-574									Chin	Chin
8	Burman234	U2	051 318	73 146 263 523+CA	16019-16569/1-575								12058-12484=12106 12308 12372	Chin	Chin
8	Burman235*	M84	223 258d 272 519	73 185 189 199 263 315+C 489	16015-16569/1-509								1660-1968=1719 1809	Chin	Chin
8	Burman236	A5a	187 223 290 319 362 519	73 151 152 200 235 263 315+C 522-523d	16017-16569/1-574									Chin	Chin
8	Burman237	D	092 223 311 362	73 94 189 207 214 263 315+C 489	16017-16569/1-575								4540-4912=4769 4883; 15012-15746=15043 15301 15326	Chin	Chin
8	Burman238	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16015-16569/1-575									Chin	Chin
8	Burman239	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16009-16569/1-573					-				Chin	Chin
8	Burman240	M49	223 234 390 519	73 152 249d 263 279 309+CC 315+C 489	16004-16569/1-574								3676-4350=3780	Chin	Chin
8	Burman241	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16007-16569/1-574									Chin	Chin
8	Burman242	F1	189 304 311 519	73 146 152 249d 263 309+C 315+C 522-523d	16007-16569/1-317					-				Chin	Chin
8	Burman243	M72a	129 166d 213 214 223 526	73 263 315+C 489	16007-16569/1-574								15422-16035=15497 15644 15820	Chin	Chin
8	Burman244	G	213 223 246T 311 362 519	73 195 263 309+CC 315+C	16012-16569/1-317		+	+						Chin	Chin
8	Burman245	F1	093 189 304 311 519	73 143 146 249d 263 309+C 315+C	16031-16569/1-317					-				Chin	Chin
8	Burman246	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16015-16569/1-573					-				Chin	Chin
8	Burman247	D	092 223 311 362	73 94 189 207 214 263 315+C 489	16017-16569/1-574								4520-5529=4769 4883 5178A	Chin	Chin
8	Burman248	M49	223 234 390 519	73 152 249d 263 279 309+CC 315+C	16013-16569/1-321								3676-4360=3780	Chin	Chin
8	Burman249*	M49	223 234 390 519	73 152 249d 263 279 309+CC 315+C 489	16009-16569/1-574									Chin	Chin
8	Burman250*	M84	093 223 258d 272 519	73 185 263 315+C 489	16012-16569/1-574									Chin	Chin
8	Burman251	D	223 362	73 263 309+C 315+C 489 522-523d	16013-16569/1-573		-	-						Chin	Chin
8	Burman252	Z	185 189 193d 223 260 298 311 519	73 152 249d 263 315+C 489	16022-16569/1-574								8821-9220=8860 9090	Chin	Chin
8	Burman253*	M72a	129 166d 213 214 223 342 526	73 263 315+C 489	16011-16569/1-574									Chin	Chin
8	Burman254	G	213 223 246T 311 362 519	73 195 263 315+C 489	16009-16569/1-572		+	+						Chin	Chin
8	Burman255	G	213 223 246T 311 362 519	73 195 263 315+C 489	16016-16569/1-574		+	+						Chin	Chin
8	Burman256	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16017-16569/1-573					-				Chin	Chin
8	Burman257	Z	185 189 193d 223 260 298 311 362 519	73 152 249d 263 315+C 489	16033-16569/1-574								8824-9220=8860 9090	Chin	Chin
8	Burman258	Z	093 185 223 260 298 311 357	73 152 204 207 249d 263 309+C 315+C 489 522-523d	16006-16569/1-324/423-565								8815-9220=8860 9090	Chin	Chin
8	Burman259	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C 489	16004-16569/1-574								4302-4616=4491	Chin	Chin
8	Burman260	F1	183C 189 294 304 311 519	73 143 146 249d 263 309+C 315+C	16018-16569/1-316					-				Chin	Chin
8	Burman261	M74	223 311 362 400 519	73 146 185 263 309+C 315+C 489	16007-16569/1-574								4519-5317=4769 5054; 15012-15753=15043 15301 15326	Chin	Chin
8	Burman262	D	223 362	73 263 309+C 315+C	16011-16569/1-321									Chin	Chin
8	Burman263	Z	185 189 193d 223 260 298 311 362 519	73 152 249d 263 315+C 489	16006-16569/1-574								15622-16188=15784	Chin	Chin
8	Burman264	D	223 362	73 263 309+C 315+C 489 522-523d	16006-16569/1-573		-	-						Chin	Chin
8	Burman265	Z	185 189 223 260 298 311 519	73 152 249d 263 315+C 489	16010-16569/1-574								8827-9136=8860 9090	Chin	Chin
8	Burman266	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16008-16569/1-573					-				Chin	Chin
8	Burman267	D	209 223 362 519	73 263 315+C 489 522-523d	16007-16569/1-574		-	-						Chin	Chin
8	Burman268	Z	185 189 193d 223 260 298 311 519	73 152 249d 263 315+C 489	16016-16569/1-574								8831-9220=8860 9090	Chin	Chin
8	Burman269	F1	093 189 304 311 519	73 143 146 249d 263 309+C 315+C 522-523d	16015-16569/1-573					-				Chin	Chin
8	Burman270	M33a1	172 223 261 519	73 263 309+C 489	16017-16569/1-574									Chin	Chin
8	Burman271	G	213 223 246T 311 362 519	73 195 263 315+C 489	16012-16569/1-574			+						Chin	Chin
8	Burman272	M9a1b1	158 223 234 362 519	73 150 152 153 263 309+C 315+C 489	16022-16569/1-573								4237-4691=4491	Chin	Chin
8	Burman273	G	213 223 246T 311 362 519	73 195 263 315+C 489	16017-16569/1-574			+						Chin	Chin
8	Burman274	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16004-16569/1-574									Chin	Chin
8	Burman275	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16004-16569/1-573					-				Chin	Chin
8	Burman276	A	223 290 319 362	73 151 152 235 263 309+C 315+C	16021-16569/1-409									Chin	Chin
8	Burman277	F1	086 111 304 519	73 152 234 249d 263 522-523d	16005-16569/1-575					-				Chin	Chin
8	Burman278	Z	185 189 193d 223 260 298 311 519	73 152 249d 263 315+C 489	16007-16569/1-574								8814-9221=8860 9090	Chin	Chin
8	Burman279	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16011-16569/1-573					-				Chin	Chin
8	Burman280	D4	223 256 311 362 519	73 146 200 263 309+C 315+C 489	16007-16569/1-574			-						Chin	Chin
8	Burman281	Z	185 189 193d 223 260 298 311 519	73 152 249d 263 315+C 489	16005-16569/1-574								8827-9217=8860 9090	Chin	Chin
8	Burman282	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16016-16569/1-573					-				Chin	Chin
8	Burman283	G	213 223 246T 311 362 519	73 195 263 315+C 489	16004-16569/1-574			+						Chin	Chin
8	Burman284	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16006-16569/1-575					-				Chin	Chin
8	Burman285	Z	185 189 223 260 298 519	73 152 249d 263 315+C 489	16008-16569/1-574								15622-15947=15784	Chin	Chin
8	Burman286	F1	189 304 311 519	73 146 249d 263 309+C 315+C 522-523d	16016-16569/1-573					-				Chin	Chin
8	Burman287	Z	185 189 223 260 298 519	73 152 249d 263 315+C 489	16009-16569/1-574								8827-9472=8860 9090 9215A	Chin	Chin

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
8	Burman288	A5a	187H 223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16015-16569/1-574								417-1298=522-523d 663 735 750	Chin	Chin
8	Burman289	Z	185 189 193d 223 260 298 519	73 152 249d 263 315+C 489	16010-16569/1-574									Chin	Chin
8	Burman290	F1	189 294 304 311 519	73 143 146 249d 263 309+C 315+C	16008-16569/1-352					-				Chin	Chin
8	Burman291	F1	183C 189 304 311 519	73 146 150 249d 263 309+C 315+C	16004-16569/1-316					-			6367-6818=6620	Chin	Chin
8	Burman292	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	19004-16569/1-573					-				Chin	Chin
8	Burman293	F1a1	129 162 172 304 327 519	73 249d 263 309+CC 315+C 522-523d 548	16007-16569/1-572					-				Chin	Chin
8	Burman294	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16004-16569/1-574									Chin	Chin
8	Burman295	F1	189 304 311 519	73 146 249d 263 309+C 315+C 522-523d	16006-16569/1-573					-				Chin	Chin
8	Burman296	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489	16007-16569/1-574								9240-9731=9447 9540	Chin	Chin
8	Burman297	F1	189 294 304 311 519	73 143 146 249d 263 309+C 315+C 522-523d	16022-16569/1-573					-				Chin	Chin
8	Burman298	R21	172 182C 183C 189 356 399 519	73 152 263 309+C 315+C 522-523d	16028-16569/1-575									Chin	Chin
8	Burman299	F1	189 284 304 362 519	73 146 152 249d 263 309+C 315+C 522-523d	16015-16569/1-573					-				Chin	Chin
8	Burman300	F1	189 304 311 519	73 146 152 249d 263 309+C 315+C 522-523d	16008-16569/1-573					-				Chin	Chin
8	Burman301	G	192 223 295 519	73 150 195 263 315+C 489	16017-16569/1-568			+						Chin	Chin
8	Burman302	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C 489	16017-16569/1-574								4237-4942=4491 4769	Chin	Chin
8	Burman303	A5a	187 223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16019-16569/1-574									Chin	Chin
8	Burman304	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16018-16569/1-574									Chin	Chin
8	Burman305	G	213 223 246T 311 362 519	73 195 263 315+C 489	16019-16569/1-574			+						Chin	Chin
8	Burman306	U2	051 318	73 146 263 315+C 523+CA	16017-16569/1-574								12150-12472=12308 12372	Chin	Chin
8	Burman307	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16019-16569/1-574									Chin	Chin
8	Burman308	Z	185 189 193d 223 260 298 311 519	73 152 249d 263 315+C 489	16015-16569/1-574								8820-9217=8860 9090	Chin	Chin
8	Burman309	F1	182C 183C 189 304 311 519	73 146 152 249d 263 309+CC? 315+C	16032-16569/1-318					-				Chin	Chin
8	Burman310	G	213 223 246T 311 362 519	73 195 263 315+C 489	16015-16569/1-574			+						Chin	Chin
8	Burman311	A	223 246 290 319 362	73 151 152 200 235 263 315+C 522-523d	16014-16569/1-574									Chin	Chin
8	Burman312	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C 489	16027-16569/1-574								4224-4822=4491 4769	Chin	Chin
8	Burman313	F1	189 284 304 362 519	73 146 152 249d 263 309+C 315+C 522-523d	16019-16569/1-574					-				Chin	Chin
8	Burman314	M9a1b1	093 158 223 234 311 362 519	73 150 152 153 263 309+C 315+C 489	16017-16569/1-574								4238-4997=4491 4769	Chin	Chin
8	Burman315	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16018-16569/1-574									Chin	Chin
8	Burman316	G	213 223 246T 311 362 519	73 195 263 315+C 489	16018-16569/1-574			+						Chin	Chin
8	Burman317	Z	185 189 193d 223 260 298 519	73 152 249d 263 315+C 489	16014-16569/1-574								8815-9476=8860 9090 9215A	Chin	Chin
8	Burman318	G	213 223 246T 311 362 519	73 195 263 315+C 489	16018-16569/1-574			+						Chin	Chin
8	Burman319	G	213 223 246T 311 362 519	73 195 263 315+C 489	16017-16569/1-574			+						Chin	Chin
8	Burman320	G	213 223 246T 311 362 519	73 195 263 315+C 489	16018-16569/1-574			+						Chin	Chin
8	Burman321*	M33a1	172 223 261 519	73 263 315+C 489	16017-16569/1-574									Chin	Chin
8	Burman322	A5a	187 223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16009-16569/1-574									Chin	Chin
8	Burman323	C	051 189 223 298 327 519	73 249d 263 315+C 489	16009-16569/1-574						+			Chin	Chin
8	Burman324	Z	185 189 193d 223 260 298 311 362 519	73 152 249d 263 315+C 489	16017-16569/1-574									Chin	Chin
8	Burman325	F1	182C 183C 189 304 311 519	73 146 150 249d 263 309+C 315+C	16017-16569/1-315					-				Chin	Chin
8	Burman326	Z	185 189 193d 223 260 298 311 519	73 152 249d 263 315+C 489	16014-16569/1-574								15624-16187=15784 16185	Chin	Chin
8	Burman327	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C 489	16018-16569/1-574								4232-4946=4491 4769	Chin	Chin
8	Burman328	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16018-16569/1-574									Chin	Chin
8	Burman329	M72a	129 166d 213 214 223 342 526	73 263 315+C 489	16014-16569/1-574									Chin	Chin
8	Burman330	M33b	223 259 264 324 362 519	73 185 204 263 309+C 315+C 489	16017-16569/1-574								3200-3570=3221	Chin	Chin
8	Burman331	U2	051 318	73 146 263 315+C 523+CA	16018-16569/1-574								12059-12422=12106 12308 12372	Chin	Chin
8	Burman332	G	213 223 246T 311 362 519	73 195 263 315+C 489	16019-16569/1-574			+						Chin	Chin
8	Burman333	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16014-16569/1-574									Chin	Chin
8	Burman334	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16017-16569/1-574									Chin	Chin
8	Burman335	C	223 298 327 519	73 146 152 249d 263 309+C 315+C	16021-16569/1-347						+			Chin	Chin
8	Burman336	A11	223 234 290 293C 319 519	73 152 235 263 309+CC 315+C 522-523d	16017-16569/1-574									Chin	Chin
8	Burman337	Z	185 189 193d 223 260 298 519	73 152 249d 263 315+C 489	16017-16569/1-574								15626-16122=15784	Chin	Chin
8	Burman338	M51	223 278 519	73 150 152 263 309+C 315+C 489 522-523d	16024-16569/1-574								14081-14582=14110 14161 14356 14527	Chin	Chin
8	Burman339	F1	189 304 311 519	73 146 249d 263 309+C 315+C 522-523d	16019-16569/1-573					-				Chin	Chin
8	Burman340	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C 489	16007-16569/1-574								4237-4961=4491 4769	Chin	Chin
8	Burman341	A	223 290 319 362	73 151 152 200 235 263 309+C 315+C 522-523d	16008-16569/1-574									Chin	Chin
8	Burman342	M84	223 258d 272 519	73 185 263 315+C 489	16017-16569/1-574								1538-1892=1719 1809	Chin	Chin
8	Burman343	A	223 290 311 319 362	73 151 152 200 235 263 315+C 522-523d	16017-16569/1-574									Chin	Chin
8	Burman344	F1a	129 172 304 519	73 249d 263 309+C 315+C 522-523d	16032-16569/1-574					-				Chin	Chin
8	Burman345	G	213 223 246T 311 362 519	73 195 263 315+C 489	16019-16569/1-574			+						Chin	Chin
8	Burman346*	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489 522-523d	16020-16569/1-574									Chin	Chin
8	Burman347	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16024-16569/1-348									Chin	Chin
8	Burman348	M9a1a2	145 223 234 316	73 153 263 309+CC 315+C 489 513	16016-16569/1-574								4238-4956=4491 4769	Chin	Chin
8	Burman349	M74	223 311 362 400 519	73 146 185 263 309+C 315+C 489	16018-16569/1-574			+						Chin	Chin
8	Burman350	M72a	129 166d 214 223 526	63 73 263 315+C 489	16032-16569/1-574								15416-16024=15497 15644 15820	Chin	Chin
8	Burman351	G	129 213 223 246T 311 362 519	73 195 263 315+C 489	16017-16569/1-574			+						Chin	Chin
8	Burman352	G	192 223 295 519	73 150 195 263 315+C 489 573+CC	16023-16569/1-574			+						Chin	Chin

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
8	Burman353	F1	189 294 304 311 519	73 143 146 249d 263 309+C 315+C 522-523d	16026-16569/1-573			+		-				Chin	Chin
8	Burman354	M49	223 234 390 519	73 152 249d 263 279 309+CC 315+C 489	16017-16569/1-574								3668-4236=3780	Chin	Chin
8	Burman355	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16018-16569/1-573					-				Chin	Chin
8	Burman356	D	126 223 362	73 263 309+C 315+C 489 522-523d	16021-16569/1-574			-						Chin	Chin
8	Burman357	D	126 223 362	73 263 309+C 315+C 489 522-523d	16018-16569/1-574			-						Chin	Chin
8	Burman358	D	092 223 311 362	73 94 189 207 214 263 315+C 489	16018-16569/1-574								4521-5531=4769 4883 5178A	Chin	Chin
8	Burman359	F2a	092A 182C 183C 189 291 304 311	73 249d 263 315+C	16025-16569/1-316					+				Chin	Chin
8	Burman360	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16032-16569/1-574									Chin	Chin
8	Burman361	A11	093 223 234 290 293C 319 519	73 152 235 263 315+C 522-523d	16017-16569/1-574									Chin	Chin
8	Burman362	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16017-16569/1-574									Chin	Chin
8	Burman363	Z	114 185 189 193d 223 260 298 519	73 152 249d 263 315+C 489	16017-16569/1-574								15623-15908=15784	Chin	Chin
8	Burman364	G	213 223 246T 311 362 519	73 195 263 315+C 489	16017-16569/1-574			+						Chin	Chin
8	Burman365	G	213 223 246T 311 362 519	73 195 263 315+C 489	16010-16569/1-574			+						Chin	Chin
8	Burman366	M84	093 223 258d 272 519	73 185 263 315+C 489	16032-16569/1-574								1532-1882=1719 1809	Chin	Chin
8	Burman367	F1	183C 189 304 311 519	73 146 249d 263 309+C 315+C 522-523d	16018-16569/1-574					-				Chin	Chin
8	Burman368	F1	183C 189 304 311 519	73 146 150 249d 263 309+C 315+C 522-523d	16017-16569/1-574					-				Chin	Chin
8	Burman369	D	223 362	73 263 309+C 315+C 489 522-523d 573+C	16017-16569/1-574			-						Chin	Chin
8	Burman370	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16017-16569/1-574									Chin	Chin
8	Burman371	A	223 246 290 319 362	73 151 152 200 235 263 315+C 522-523d	16018-16569/1-574									Chin	Chin
8	Burman372	G	213 223 246T 311 362 519	73 195 263 315+C 489	16018-16569/1-574			+						Chin	Chin
8	Burman373	G	213 223 246T 311 362 519	73 195 263 315+C 489	16017-16569/1-574			+						Chin	Chin
8	Burman374	F1a1	129 162 172 304 519	73 249d 263 315+C 522-523d 548	16033-16569/1-574					-				Chin	Chin
8	Burman375	R31	218 289 304 526	73 152 183 184 185 204 263 315+CC	16017-16569/1-574								1502-1890=1531	Chin	Chin
8	Burman376*	M72a	129 166d 214 223 526	63 73 263 315+C 489	16017-16569/1-574									Chin	Chin
8	Burman377	M72a	129 166d 214 223 526	63 64 73 263 315+C 489	16001-16569/1-574								15409-16024=15497 15644 15820	Chin	Chin
8	Burman378	Z	185 189 223 260 298 519	73 152 249d 263 315+C 489	16018-16569/1-574								8811-9506=8860 9090 9215A	Chin	Chin
8	Burman379	C	223 298 327 519	73 146 153 249d 263 309+C 315+C 489	16013-16569/1-574						+			Chin	Chin
8	Burman380	Z	185 189 223 260 298 519	73 152 249d 263 315+C 489	16015-16569/1-574								8822-9506=8860 9090 9215A	Chin	Chin
8	Burman381	D	223 362	73 263 309+C 315+C 489 522-523d 573+C	16017-16569/1-574			-						Chin	Chin
8	Burman382	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16017-16569/1-574									Chin	Chin
8	Burman383	F1	189 304 311 519	73 146 249d 263 309+C 315+C	16017-16569/1-316					-				Chin	Chin
8	Burman384	D	223 362	73 263 309+C 315+C 489 522-523d 573+C	16017-16569/1-574			-						Chin	Chin
8	Burman385	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C 489	16009-16569/1-480								4237-4961=4491 4769	Chin	Chin
8	Burman386*	M55	136 189 217 223 319 381	73 94 173 204 263 315+C 482 489 522-523d	16001-16569/1-574								9230-9728=9477 9540	Chin	Chin
8	Burman387	F1a1	129 162 172 304 327 519	73 249d 263 309+CC 315+C	16017-16569/1-316					-				Chin	Chin
8	Burman388	A	223 290 319 362	73 151 152 200 235 263 315+C 456 522-523d	16011-16569/1-574									Chin	Chin
8	Burman389	G	192 223 295 519	73 150 195 263 315+C 489 573+CC	16024-16569/1-574			+						Chin	Chin
8	Burman390	Z	185 189 193d 223 260 298 519	73 152 249d 263 315+C 489	16019-16569/1-574								15614-16382=15784	Chin	Chin
8	Burman391	M33b	223 259 264 324 362 519	73 185 204 263 309+C 315+C 489	16014-16569/1-574								3203-3675=3221	Chin	Chin
8	Burman392	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C	16033-16569/1-316					-				Chin	Chin
8	Burman393	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489 522-523d	16017-16569/1-574								9228-9592=9447 9540	Chin	Chin
8	Burman394	A	223 290 319 362	73 151 152 200 235 263 315+C 522-523d	16017-16569/1-574									Chin	Chin
8	Burman395	M33b	051 093 223 266 324 355 362 391 519	73 146 263 309+C 315+C 489	16017-16569/1-574								3206-3342=3221	Chin	Chin
8	Burman396	G	213 223 246T 311 362 519	73 195 263 315+C 489	16017-16569/1-574			+						Chin	Chin
8	Burman397	Z	185 189 193d 223 260 298 311 362 519	73 152 249d 263 315+C 489	16022-16569/1-574								15626-15945=15784	Chin	Chin
8	Burman398	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489 522-523d	16024-16569/1-574								9241-9765=9447 9540	Chin	Chin
8	Burman399*	M51	223 278 519	73 150 152 263 309+C 315+C 489 522-523d	16023-16569/1-574									Chin	Chin
8	Burman400	A	223 290 319 362	73 151 152 200 235 263 315+C 456 522-523d	16030-16569/1-574									Chin	Chin
8	Burman401	F1	189 304 311 519	73 146 249d 263 309+C 315+C 522-523d	16018-16569/1-574					-				Chin	Chin
8	Burman402	F1c	111 129 220 304 519	73 152 234 249d 263 309+CC 315+C	16018-16569/1-316					-				Chin	Chin
8	Burman403	A	223 290 319 362	73 151 152 200 235 263 315+C 523d	16019-16569/1-574									Chin	Chin
8	Burman404	M33b	051 093 223 266 324 355 362 391 519	73 146 199 263 309+C 315+C	16017-16569/1-316								3205-3666=3221	Chin	Chin
8	Burman405	M84	093 223 258d 272 519	73 185 263 315+C 489	16017-16569/1-574								1518-2018=1719 1809	Chin	Chin
8	Burman406	F1	086 111 304 519	73 152 234 249d 263 309+C 315+C 522-523d	16017-16569/1-573					-				Chin	Chin
8	Burman407*	M33b	051 093 223 266 324 355 362 391 519	73 146 263 309+C 315+C 489	16017-16569/1-574									Chin	Chin
8	Burman408	M49	223 234 390 519	73 152 249d 263 279 309+CC 315+C	16017-16569/1-316								3676-4400=3780	Chin	Chin
8	Burman409	Z	185 223 249 260 298	73 143 152 249d 263 315+C 489 573+CCCCC	16032-16569/1-574								8818-9525=8860 9090 9477	Chin	Chin
8	Burman410	F1	189 304 311 519	73 146 249d 263 309+C 315+C 522-523d	16023-16569/1-573					-				Chin	Chin
8	Burman411	N21	182 193 223 260 519	73 150 195 263 309+C 315+C 337d	16015-16569/1-574								13101-13723=13392 13437	Chin	Chin
8	Burman412	N21	182 193 223 260 519	73 150 195 263 309+C 315+C 337d	16010-16569/1-574								13097-13764=13437	Chin	Chin
8	Burman413	N21	182 193 223 260 519	73 150 195 263 309+C 315+C 337d	16016-16569/1-574								13309-13504=13437	Chin	Chin
9	Burman637	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16013-16569/1-574					-				Magway	Chin
9	Burman638	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16013-16569/1-574					-				Magway	Chin
9	Burman639	D	092 223 311 362	73 94 262 263 315+C 489	16018-16569/1-512								4520-5107=4769 4883; 15011-15762=15043 15119 15301 15326 15663	Magway	Chin
9	Burman640*	M84	223 258d 272 519	73 185 263 315+C 489	16012-16569/1-574									Magway	Chin

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
9	Burman641	M84	223 258d 272 519	73 185 263 315+C 489	16014-16569/1-574								1516-1881=1719 1809	Magway	Chin
9	Burman642	F1a1a	108 129 162 172 304 368 519	73 249d 263 309+C 315+C 522-523d	16013-16569/1-574					-				Magway	Chin
9	Burman643	D5a2	092 164 172 182C 183C 189 223 266 362 519	73 150 263 309+C 315+C	16013-16569/1-315									Magway	Chin
9	Burman644	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489	16013-16569/1-574								9228-9673=9447 9540	Magway	Chin
9	Burman645*	M84	193 223 258d 272 519	73 185 263 315+C 489	16013-16569/1-564								1530-1860=1719 1809	Magway	Chin
9	Burman646*	R22a	169 224 249 265C 288 291 304 519	73 152 199 263 309+C 315+C 329	16012-16569/1-574									Magway	Chin
9	Burman647	D	092 223 311 362	73 94 262 263 315+C 489	16012-16569/1-574								4519-5223=4769 4883 5178A; 15011-15782=15043 15301 15326	Magway	Chin
9	Burman648	M9a1a2	145 223 234 316 519	73 153 263 309+C 315+C 489 513	16017-16569/1-523								4229-4899=4491 4769	Magway	Chin
9	Burman649	M84	093 223 258d 272 519	73 185 188 195 263 315+C	16009-16569/1-364								1532-1871=1719 1809	Magway	Chin
10	Burman414	M38	189 223 242A 249 519	73 153 246 263 309+C 315+C	16012-16569/1-316								15011-15650=15043 15301 15326 15314 15326 15487	Sagaing	Naga
10	Burman415	G2a1	093 126 223 227 278 362	73 263 309+C 315+C 489	16061-16569/1-574		+							Sagaing	Naga
10	Burman416*	M24	223 311 519	73 146 152 195 204 263 315+C 489	16042-16569/1-574								15012-15749=15043 15301 15326 15601	Sagaing	Naga
10	Burman417	M33b	223 259 324 362 389 519	73 263 309+C 315+C 489	16017-16569/1-574								3200-3663=3221	Sagaing	Naga
10	Burman418	M33b	223 259 324 362 389 519	73 263 309+C 315+C 489	16001-16569/1-574								3203-3676=3221	Sagaing	Naga
10	Burman419*	M55	217 223 319 381 519	73 94 173 204 263 315+C 482 489	16043-16569/1-574								9241-9570=9447 9540	Sagaing	Naga
10	Burman420	M24	223 311 519	73 146 152 195 204 263 315+C 489	16043-16569/1-574								15013-15800=15043 15301 15326 15601	Sagaing	Naga
10	Burman421	M24	223 311 519	73 146 152 195 204 263 6315+C 489	16043-16569/1-574								15011-15890=15043 15301 15326 15601	Sagaing	Naga
10	Burman422	M33b	223 259 324 362 389 519	73 263 309+C 315+C 489	16021-16569/1-574								3198-3571=3221	Sagaing	Naga
10	Burman423	M33b	223 259 324 362 389 519	73 263 309+C 315+C 489	16014-16569/1-328								3198-3678=3221	Sagaing	Naga
10	Burman424	M11	104 223	73 198 200 215 263 309+C 315+C	16023-16569/1-317								7375-8231=7642 8108 13074	Sagaing	Naga
10	Burman425	F1c	111 129 304 519	73 152 228 234 249d 263 315+C 522-523d	16032-16569/1-574					-				Sagaing	Naga
10	Burman426	M33b	223 259 324 362 389 519	73 263 309+C 315+C 489	16071-16569/1-491								3201-3589=3221	Sagaing	Naga
10	Burman427	G2a1	093 126 223 227 278 362	73 263 309+C 315+C 489	16043-16569/1-574		+							Sagaing	Naga
10	Burman428	M24	223 311 519	73 146 152 195 204 263 315+C 489	16061-16569/1-574								15010-15780=15043 15301 15326 15601	Sagaing	Naga
10	Burman429	M24	223 311 519	73 146 152 195 204 263 315+C 489	16017-16569/1-574								15012-15999=15043 15301 15326 15601	Sagaing	Naga
10	Burman430	D	223 311 362 519	73 263 315+C 489	16043-16569/1-574								4519-4980=4769 4883; 15012-15735=15043 15301 15326	Sagaing	Naga
10	Burman431	G	223 294 362	73 183 263 309+C 315+C 489	16035-16569/1-574			+						Sagaing	Naga
10	Burman432	M55	217 223 319 381 519	73 94 173 204 263 315+C 482 489	16067-16569/1-574								9223-9660=9447 9540	Sagaing	Naga
10	Burman433	M24	223 311 519	73 146 152 195 204 263 315+C 489	16065-16569/1-574								15011-15800=15043 15301 15326 15601	Sagaing	Naga
10	Burman434	M11	104 223	73 198 200 215 263 309+C 315+C 318 326 489	16017-16569/1-493								940-1557=1095 1438	Sagaing	Naga
10	Burman435*	M33b	223 259 324 362 389 519	73 263 309+C 315+C 489	16043-16569/1-574									Sagaing	Naga
10	Burman436	M24	223 311 519	73 146 152 195 204 263 315+C 489	16012-16569/1-574								15412-15965=15601	Sagaing	Naga
10	Burman437	F1c	111 129 304 519	73 152 234 249d 263 315+C 522-523d	16014-16569/1-574					-				Sagaing	Naga
10	Burman438	G	223 294 362	73 183 263 309+C 315+C 489	16012-16569/1-574		+	+						Sagaing	Naga
10	Burman439	G	223 294 362	73 183 263 309+C 315+C 489	16021-16569/1-548		+	+						Sagaing	Naga
10	Burman440	G	223 294 362	73 183 263 309+C 315+C 489	16012-16569/1-490								15015-15534=15043 15301 15326	Sagaing	Naga
10	Burman441	M24	223 311 519	73 146 152 195 204 263 315+C 489	16043-16569/1-574								15011-15928=15043 15301 15326 15601	Sagaing	Naga
10	Burman442	G	223 294 362	73 183 263 309+C 315+C 489	16043-16569/1-574		+	+						Sagaing	Naga
10	Burman443	M33b	223 259 324 362 389 519	73 263 309+C 315+C 489	16043-16569/1-555								3203-3447=3221	Sagaing	Naga
10	Burman444	M33b	223 259 324 362 389 519	73 263 309+C 315+C 489	16043-16569/1-574								3198-3678=3221	Sagaing	Naga
10	Burman445	M24	223 311 519	73 146 152 195 204 263 315+C 489	16021-16569/1-574								15011-15725=15043 15301 15326 15601	Sagaing	Naga
11	Burman446*	HV	129 242 356	263 309+CC 315+C	16019-16569/1-316									Sagaing	Naga
11	Burman447	M10	066 223 311	73 263 315+C 489	16011-16569/1-573						-		15017-15509=15040 15043 15071 15218 15301 15326	Sagaing	Naga
11	Burman448	M10	066 223 311	73 263 315+C 489	16043-16569/1-550								15002-15677=15040 15043 15071 15218 15301 15326	Sagaing	Naga
11	Burman449	M9a1b1	158 223 234 519	73 150 152 153 263 315+C 489	16013-16569/1-574								4237-4912=4491 4769	Sagaing	Naga
11	Burman450	M10	066 223 311	73 263 315+C 489	16032-16569/1-506								15011-15822=15040 15043 15071 15218 15301 15326	Sagaing	Naga
11	Burman451	M10	066 223 311	73 263 315+C 489	16043-16569/1-509								15011-15686=15040 15043 15071 15218 15301 15326	Sagaing	Naga
11	Burman452	F1	183C 189 304 519	73 249d 263 309+C 315+C	16043-16569/1-316					-				Sagaing	Naga
11	Burman453	M9a	223 234 362 519	73 150 152 153 263 315+C	16016-16569/1-434								4238-4961=4491 4769	Sagaing	Naga
11	Burman454	D5a2	092 164 182C 183C 189 223 266 362	73 146 150 263 315+C 489 522-523d	16043-16569/1-574		-	-						Sagaing	Naga
11	Burman455	C	223 298 327 357 519	47 73 214 249d 263 309+CC 315+C	16043-16569/1-316						+			Sagaing	Naga
11	Burman456	C	051 223 298 519	73 249d 263 315+C 489	16018-16569/1-574						+			Sagaing	Naga
11	Burman457	G	223 294 362	73 151 183 263 309+C 315+C 489	16018-16569/1-574	+		+						Sagaing	Naga
11	Burman458	C	093 129 223 298 327 519	73 249d 263 315+C 489	16033-16569/1-574						+			Sagaing	Naga
11	Burman459*	M54	188 192 223 304 311 519	73 146 263 315+C 489	16043-16569/1-574									Sagaing	Naga
11	Burman460	C	093 129 223 298 327 519	73 249d 263 315+C 489	16020-16569/1-574						+			Sagaing	Naga
11	Burman461	F1b	183C 189 232A 249 304 311 519	73 146 204 249d 263 309+C 315+C 522-523d	16043-16569/1-574					-				Sagaing	Naga
11	Burman462	F1b	183C 189 232A 249 304 311 519	73 146 204 249d 263 309+C 315+C 522-523d	16043-16569/1-574					-				Sagaing	Naga
11	Burman463	M10	066 223 311	73 263 315+C 489 573+CCC	16013-16569/1-572								15012-15648=15040 15043 15071 15218 15301 15326	Sagaing	Naga
11	Burman464	C	086 223 298 327 519	73 249d 263 309+C 315+C 489	16009-16569/1-542						+			Sagaing	Naga
11	Burman465	C	086 223 298 327 519	73 249d 263 309+C 315+C 489	16043-16569/1-574						+			Sagaing	Naga
11	Burman466	F1b	183C 189 232A 249 304 311 519	73 146 204 249d 263 309+C 315+C 522-523d	16008-16569/1-574					-				Sagaing	Naga
11	Burman467	C	086 223 298 327 519	73 249d 263 309+C 315+C 489	16013-16569/1-574					+			13085-13440=13263	Sagaing	Naga
11	Burman468	M49	223 225 234 390 519	73 199 249d 263 309+CC 315+C 489	16043-16569/1-574								3677-4310=3780	Sagaing	Naga
11	Burman469	M10	066 223 311	73 263 315+C 489	16012-16569/1-490								15011-15698=15040 15043 15071 15218 15301 15326	Sagaing	Naga

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
11	Burman470	B5a	140 183C 189 261 266A 519	73 152 189 210 263 309+C 315+C 522-523d	16061-16569/1-574	+								Sagaing	Naga
11	Burman471	M24	223 311 519	73 146 152 195 204 263 315+C 489	16043-16569/1-574								15012-15900=15043 15301 15326 15601	Sagaing	Naga
11	Burman472	M9a1b1	158 223 234 362 519	73 150 152 263 315+C 489	16075-16569/1-574								4237-4950=4491 4769	Sagaing	Naga
11	Burman473	F2a	092A 093 124 291 304	73 249d 263 309+C 315+C 522-523d	16007-16569/1-574								6364-6803=6392 6782; 15011-15783=15326	Sagaing	Naga
11	Burman474	D5a2	092 164 182C 183C 189 223 266 362	73 146 150 263 315+C 489 522-523d	16043-16569/1-574		-	-						Sagaing	Naga
11	Burman475	G	223 294 362	73 151 183 263 309+C 315+C 489	16043-16569/1-574	+		+						Sagaing	Naga
12	Burman476	B5a	140 183C 189 261 266A 519	73 152 210 263 309+C 315+C 522-523d	16043-19569/1-574	+								Sagaing	Naga
12	Burman477	M9a1b1	158 223 234 362 519	73 150 152 263 309+C 315+C 489	16063-16569/1-574								4257-4961=4491 4769	Sagaing	Naga
12	Burman478	G	124 223 244C 246T 295 356 362 519	73 200 263 315+CC 468 489 521	16027-16569/1-574		+	+						Sagaing	Naga
12	Burman479	D4	223 256 311 362 519	73 200 263 309+C 315+C 489	16012-16569/1-574									Sagaing	Naga
12	Burman480	M13b	145 168 188 223 257 311 519	73 152 263 315+C 489 513	16043-16569/1-574								10186-10735=10373 10398 10400 10411	Sagaing	Naga
12	Burman481	M13b	145 168 188 223 257 311 519	73 152 263 315+C 489 513	16043-16569/1-574								10185-10669=10373 10398 10400 10411	Sagaing	Naga
12	Burman482	M83	223 320	73 146 207 263 315+C 356+C 489	16043-16569/1-490								7908-8442=8143 8271 8307	Sagaing	Naga
12	Burman483	B5a	140 183C 189 261 266A 519	73 152 210 263 309+C 315+C 522-523d	16017-16569/1-573	+								Sagaing	Naga
12	Burman484*	M83	129 223 320	73 146 207 263 309+C 315+C 356+C 489	16017-16569/1-490									Sagaing	Naga
12	Burman485*	M51	223 263 278	73 150 152 263 309+C 315+C 489 522-523d	16067-16569/1-574									Sagaing	Naga
12	Burman486	M9a	129 223 234 362 519	73 150 152 153 263 315+C 489	16017-16569/1-544								4237-4915=4491 4769	Sagaing	Naga
12	Burman487	F1c	111 129 183C 189 304 519	73 152 234 249d 263 315+C 522-523d	16067-16569/1-574					-				Sagaing	Naga
12	Burman488	M49	223 225 234 291 390 519	73 199 249d 263 309+C 315+C 489	16008-16569/1-574								3682-4199=3780	Sagaing	Naga
12	Burman489	M9a1b1	158 223 234 362 519	73 150 152 263 309+C 315+C 489	16043-16569/1-574								4237-4915=4491 4769	Sagaing	Naga
12	Burman490	D4g2a	223 274 309 362 519	73 263 298 309+C 315+C 489	16001-16569/1-574		-	-						Sagaing	Naga
12	Burman491	G	124 223 244C 246T 295 356 362 519	73 200 263 315+CC 468 489 521	16063-16569/1-573		+	+						Sagaing	Naga
12	Burman492	M49	223 225 234 291 390 519	73 199 249d 263 309+C 315+C 489	16043-16569/1-574								3682-4290=3780	Sagaing	Naga
12	Burman493	M9a	223 234 362 519	73 150 152 153 263 315+C 489	16033-16569/1-574								4238-4962=4491 4769	Sagaing	Naga
12	Burman494	G	124 223 244C 246T 295 356 362 519	73 200 263 315+CC 468 489 521	16043-16569/1-574		+	+						Sagaing	Naga
12	Burman495	M9a1b1	158 223 234 362 519	73 150 152 263 309+C 315+C	16043-16569/1-437								4230-4947=4491 4769	Sagaing	Naga
12	Burman496	M9a	129 223 234 362 519	73 150 152 153 263 315+C 489	16018-16569/1-574								4234-4863=4491 4769	Sagaing	Naga
12	Burman497	M9a	129 223 234 362 519	73 150 152 153 263 315+C 489	16044-16569/1-574								4239-4961=4491 4769	Sagaing	Naga
12	Burman498	M9a	223 234 362 519	73 150 152 153 263 315+C 489	16040-16569/1-574								4236-4961=4491 4769	Sagaing	Naga
12	Burman499	B5a	140 183C 189 261 266A 519	73 152 210 263 309+C 315+C	16012-16569/1-316								7913-8471=8281-8289d	Sagaing	Naga
12	Burman500	D	223 311 362	73 146 263 309+C 315+C 316 489	16043-16569/1-574								4521-5072=4769 4883; 15013-15632=15043 15301 15326	Sagaing	Naga
12	Burman501*	M83	223 320	73 146 207 263 315+C	16032-16569/1-316									Sagaing	Naga
12	Burman502*	R31	218 289 304 526	73 152 183 185 263 315+CC	16040-16569/1-574									Sagaing	Naga
12	Burman503	M9a	223 234 243 362 519	73 150 152 153 263 315+C 489	16043-16569/1-526								4237-4961=4491 4769	Sagaing	Naga
12	Burman504*	M55	148 217 223 319 381 519	73 94 173 204 263 309+C 315+C 482 489	16043-16569/1-507									Sagaing	Naga
12	Burman505	M9a1b1	158 223 234 362 519	73 150 152 263 309+C 315+C 489	16024-16569/1-574								4228-4775=4491 4769	Sagaing	Naga
12	Burman506	G	124 223 244C 246T 295 356 362 519	73 200 263 315+CC 489 521	16040-16569/1-574		+	+						Sagaing	Naga
12	Burman507	M55	148 217 223 319 381 519	73 94 173 204 263 309+C 315+C 482 489	16061-16569/1-574								9223-9650=9447 9540	Sagaing	Naga
12	Burman508	B5a	140 183C 189 261 266A 519	73 152 210 263 309+C 315+C	16061-16569/1-319	+								Sagaing	Naga
12	Burman509	B5a	140 183C 189 261 266A 519	73 152 189 210 263 309+CC 315+C	16014-16569/1-319	+								Sagaing	Naga
12	Burman510	M31	093 136 223	73 146 152 263 315+C 489	16043-16569/1-504									Sagaing	Naga
12	Burman511	B5a	140 183C 189 261 266A 519	73 152 210 263 309+C 315+C 522-523d	16042-16569/1-574	+								Sagaing	Naga
12	Burman512	M83	129 223 320	73 146 263 309+CC 315+C 489	16043-16569/1-316/374-574								7904-8479=8143 8271 8307	Sagaing	Naga
12	Burman513	M83	223 320	73 146 207 263 315+C 356+C 489	16023-16569/1-573								7909-8607=8143 8271 8307	Sagaing	Naga
12	Burman514	M9a	223 234 362 519	73 150 152 153 263 315+C 489	16042-16569/1-574								4236-4888=4491 4769	Sagaing	Naga
13	Burman001	M74	093 146 223 311 362 519	73 263 315+C 489	16013-16569/1-574								4519-5175=4769 5054; 15010-15547=15043 15301 15326	Magway	Rakhine
13	Burman002	F1c	111 129 189 304 519	73 152 185 234 249d 263 315+C 522-523d	16013-16569/1-575					-				Magway	Rakhine
13	Burman003	M7b	129 223 297 319	73 150 195 199 263 315+C 489	16007-16569/1-574				+					Magway	Rakhine
13	Burman004	M9a1b1	158 223 234 362 519	73 146 150 152 153 263 315+C 489	16018-16569/1-575				-				4229-4833=4491 4769	Magway	Rakhine
13	Burman005	A	223 256 290 319 362	73 151 152 200 235 263 315+C 522-523d	16007-16569/1-574									Magway	Rakhine
13	Burman006	M6	218 223 231 356 362 519	73 263 315+C 461 489 522-523d	16014-16569/1-575								4925-5328=5082 5301	Magway	Rakhine
13	Burman007	D5	189 223 362 519	73 150 309+CC 315+C	16007-16569/1-396		-	-						Magway	Rakhine
13	Burman008	M6	218 223 231 356 362 519	73 263 315+C 461 489 522-523d	16008-16569/1-574								4960-5323=5082? 5301	Magway	Rakhine
13	Burman009	F1c	111 129 304 519	73 152 234 249d 263 315+C	16008-16569/1-522					-				Magway	Rakhine
13	Burman010	N21	093 182 193 223 260 519	73 150 195 263 309+C 315+C 337d	16008-16569/1-574								13084-13627=13437	Magway	Rakhine
13	Burman011	F1a	129 172 295 304 519	73 200 249d 263 315+C 522-523d	16008-16569/1-540					-				Magway	Rakhine
13	Burman012*	M84	183d 223 224 258d 272 519	73 146 185 263 309+C 315+C	16006-16569/1-408									Magway	Rakhine
13	Burman013*	M49	223 234 302 519	73 263 309+C 315+C 489 498d	16007-16569/1-508									Magway	Rakhine
13	Burman014	M7b	129 223 297 319	73 150 195 199 263 315+C 489	16008-16569/1-574				+					Magway	Rakhine
13	Burman015	M49	223 234 302 519	73 263 309+C 315+C 489 498d	16007-16569/1-574								3683-4399=3780	Magway	Rakhine
13	Burman016	R11	182C 183C 189 311 390 399 519	73 185 189 263 309+CC 315+C	16008-16569/1-365								12598-12959=12950	Magway	Rakhine
13	Burman017*	M38	189 223 242A	73 146 152 246 263 309+C 315+C 455+T 489 513	16007-16569/1-575									Magway	Rakhine
13	Burman018	M7b	129 223 297 357	73 150 152 199 263 315+C 489	16007-16569/1-574				+					Magway	Rakhine
13	Burman019	M30	223 234 356 362 519	73 152 195A 263 315+C 489 522-523d	16029-16569/1-575		+	+						Magway	Rakhine
13	Burman020	A	223 290 319	64 73 146 151 235 263 309+C 315+C	16013-16569/1-319									Magway	Rakhine

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
13	Burman021	M7b	129 189 213 223 297 519	73 150 199 263 309+C 315+C	16005-16569/1-316				+					Magway	Rakhine
13	Burman022	B5a	140 182C 183C 189 250 261 266A 519	73 152 210 263 309+CCC 315+C	16008-16569/1-316	+								Magway	Rakhine
13	Burman023	D	223 362 519	73 199 263 309+C 315+C	16014-16569/1-316		-	-						Magway	Rakhine
13	Burman024	F1a1a	093 108 129 162 172 259A 304 519	73 249d 263 315+C 482 522-523d	16007-16569/1-574					-				Magway	Rakhine
14	Burman792	D	092 188 223 311 362	73 94 189 214 263 315+C 489	16014-16569/1-574								15012-15730=15043 15301 15326	Rakhine	Rakhine
14	Burman793	M7a	093 145 169 209 223 266 317T 324 362 519	73 146 199 263 315+C 489 520	16018-16569/1-574				+					Rakhine	Rakhine
14	Burman794	M7h	086 129 223 311	73 263 315+C 489	16001-16569/1-574								9817-10041=9824; 12060-12440=12405	Rakhine	Rakhine
14	Burman795	B5a	140 182C 183C 189 234 266A 519	73 150 210 263 309+CC 315+C	16016-16569/1-316	+								Rakhine	Rakhine
14	Burman796	B5a	140 182C 183C 189 234 266A 519	73 150 210 263 309+CC 315+C	16013-16569/1-318	+								Rakhine	Rakhine
14	Burman797	B5a	140 182C 183C 189 234 266A 519	73 150 210 263 309+CC 315+C	16008-16569/1-323	+								Rakhine	Rakhine
14	Burman798	D	092 188 223 311 362	73 94 189 214 263 315+C 489	16012-16569/1-574								4520-5275=4769 4883 5178A; 15013-15731=15043 15301 15326	Rakhine	Rakhine
14	Burman799	G	174 223 239 362	73 214 263 315+C 356+C 489	16012-16569/1-574									Rakhine	Rakhine
14	Burman800	M7h	086 129 223 311	73 263 315+C 489	16018-16569/1-575								9817-9986=9824; 12059-12543=12405; 15011-15815=15043 15301 15326 15676	Rakhine	Rakhine
14	Burman801*	M83	311 319 357	73 152 263 315+C 356+C 489	16012-16569/1-504									Rakhine	Rakhine
14	Burman802	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-599								9818-10197=9824; 12059-12410=12405; 15011-15746=15043 15301 15326 15676	Rakhine	Rakhine
14	Burman803	F1a1	129 162 172 189 304 488 519	73 249d 263 309+C 315+C	16009-16569/1-323					-				Rakhine	Rakhine
14	Burman804	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-508								12065-12511=12405; 15012-15854=15043 15301 15326 15676	Rakhine	Rakhine
14	Burman805	D	092 188 223 311 362	73 94 189 214 263 315+C	16012-16569/1-328									Rakhine	Rakhine
14	Burman806	M7h	086 129 223 311	73 263 315+C 489	16012-16569/1-576								9812-10304=9824; 12061-12430=12405; 15011-15728=15043 15301 15326 15676	Rakhine	Rakhine
14	Burman807	M7h	086 129 223 311	73 263 315+C 489	16015-16569/1-575								9817-10305=9824; 12059-12480=12405; 15008-15765=15043 15301 15326 15676	Rakhine	Rakhine
14	Burman808	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C 318 489	16017-16569/1-600								4237-4770=4491 4769	Rakhine	Rakhine
14	Burman809	M7h	086 129 223 311	73 263 315+C 489	16022-16569/1-593								9817-10305=9824; 12060-12420=12405; 15011-15705=15043 15301 15326 15676	Rakhine	Rakhine
14	Burman810*	M7h	086 129 223 311	73 263 315+C 489	16017-16569/1-560								15012-15734=15043 15301 15326 15676	Rakhine	Rakhine
14	Burman811	M83	311 319 357	73 152 263 315+C 356+C 489	16024-16569/1-512								15407-16052=15670 15941	Rakhine	Rakhine
14	Burman812	B5a	140 182C 183C 189 261 266A 304 519	73 152 210 263 309+CC 315+C	16009-16569/1-319	+								Rakhine	Rakhine
14	Burman813	M7h	086 129 223 301 311	73 263 315+C 489	16017-16569/1-598								9818-10300=9824; 12060-12430=12405; 12058-12540=12106 12308 12372; 15009-15800=15043 15301 15326 15676	Rakhine	Rakhine
14	Burman814*	M35b	223 519	73 199 263 315+C 489	16012-16569/1-599									Rakhine	Rakhine
14	Burman815	D5a2	092 172 182C 183C 189 223 266 362	73 150 263 309+C 315+C	16033-16569/1-323		-	-						Rakhine	Rakhine
14	Burman816	M7h	086 129 223 311	73 263 315+C 489	16018-16569/1-497								9817-10170=9824; 12064-12430=12405; 15010-15782=15043 15301 15326 15676	Rakhine	Rakhine
14	Burman817	F1c	111 129 304 519	73 152 234 249d 263 315+C	16022-16569/1-360					-				Rakhine	Rakhine
14	Burman818	M83	311 319 357	73 152 263 315+C 356+C 489	16009-16569/1-509								15426-15710=15670	Rakhine	Rakhine
14	Burman819	B4c2	183C 184A 189 217 235 519	73 263 309+C	16015-16569/1-310	+								Rakhine	Rakhine
14	Burman820*	M2c	182C 183C 189 223 227 258C 263	73 263 447G 489	16031-16569/1-504									Rakhine	Rakhine
14	Burman821	G	174 223 239 362	73 214 263 315+C 356+C 489	16015-16569/1-595		+	+						Rakhine	Rakhine
14	Burman822*	M30c	166d 167 223 519	73 146 195A 263 315+C 489 522-523d	16022-16521/44-596									Rakhine	Rakhine
14	Burman823	B5a	140 182C 183C 189 261 266A 304 519	73 152 210 263 309+CC	16017-16569/1-313	+								Rakhine	Rakhine
14	Burman824	B5a	140 182C 183C 189 261 266A 304 519	73 152 210 263 309+CCC	16019-16569/1-313	+								Rakhine	Rakhine
14	Burman825	M24	086 223 278 519	73 146 195 263 309+C 315+C 489	16021-16569/1-508								5811-6480=rCRS	Rakhine	Rakhine
14	Burman826	B4c2	183C 184A 189 217 235 519	73 263 309+CC 315+C	16016-16569/1-316									Rakhine	Rakhine
14	Burman827	N21	182 193 223 260 519	73 150 195 263 309+C 315+C 337d 750	16012-16569/1-784								13084-13522=13437	Rakhine	Rakhine
14	Burman828	M20	086 129 209 223 272 519	73 152 225 249d 263 315+C 316	16011-16569/1-329								12054-12395=12354; 14086-14291=14110?	Rakhine	Rakhine
14	Burman829	D	092 189 223 311 362	73 94 263	16012-16569/1-269		-	-						Rakhine	Rakhine
14	Burman830	D	092 188 223 311 362	73 94 189 214 263 315+C 489	16013-16569/1-599								4520-5404=4769 4883 5178A	Rakhine	Rakhine
14	Burman831	M20	086 129 209 223 272 519	73 152 225	16011-16569/1-235								12053-12637=12354; 14081-14616=14110	Rakhine	Rakhine
14	Burman832	M7a	093 145 169 209 223 266 317T 324 362 519	73 146 199 263 309+C 315+C	16012-16569/1-316				+					Rakhine	Rakhine
14	Burman833	M7b	223 297	73 150 199 204 263 309+C 315+C 489	16014-16569/1-499				+					Rakhine	Rakhine
14	Burman834	M9a1b1	158 223 234 362 519	73 150 152 153 263 315+C	16012-16569/1-316								4236-4707=4491 4769	Rakhine	Rakhine
14	Burman835	N9a	223 250 257A 261 311	73 150 194 263 309+C	16017-16569/1-310								4906-5409=5231	Rakhine	Rakhine
14	Burman836	D	092 189 223 311 362	73 94 263 315+C 489	16016-16569/1-505		-	-					6364-6905=rCRS	Rakhine	Rakhine
14	Burman837	M12	129 172 223 290 519	73	16010-16569/1-85								14613-15029=14727 14766 14783 15010	Rakhine	Rakhine
14	Burman838	M7a	093 145 169 209 223 266 317T 324 362 519	73 146 199 263 309+C 315+C	16027-16569/1-316								6364-6907=rCRS; 9594-10136=rCRS	Rakhine	Rakhine
14	Burman839	M7a	093 145 169 209 223 266 317T 324 362 519	73 146 199 263 309+C 315+C	16008-16569/1-316				+					Rakhine	Rakhine
14	Burman840*	M82	086 126 186 189 223 304 519 527	10 73 146 185 189 195 234 263 309+C 315+C	16012-16569/1-467									Rakhine	Rakhine
14	Burman841	D4g2a	169 223 266 274 362	73 263 298 309+C 315+C	16027-16569/1-365		-	-						Rakhine	Rakhine
14	Burman842	M20	086 129 209 223 272 519	73 152 225 249d 263 309+C 315+C 316 489	16024-16569/1-522								12036-12396=12354; 14091-14290=14110?	Rakhine	Rakhine
14	Burman843*	M49	153 213 223 234 257 294 519 527	73 263 309+C 315+C	16025-16569/1-316									Rakhine	Rakhine
14	Burman844	M7h	086 129 223 311	73 263 315+C 489	16033-16569/1-571								9817-10197=9824; 12058-12500=12405; 15011-15649=15043 15301 15326	Rakhine	Rakhine
14	Burman845	M38	092 111 184 223 519	73 246 263 315+C	16016-16569/1-474								936-1603=1438; 3682-4308=4099	Rakhine	Rakhine
14	Burman846	M12	129 172 223 290 519	73 152 198 263 309+CC 315+C	16010-16569/1-316								14668-14924=14727 14766 14783	Rakhine	Rakhine
14	Burman847	M2c	182C 183C 189 223 227 258C 263	73 263 447G 489	16018-16569/1-575								15410-15949=15670 15929	Rakhine	Rakhine
14	Burman848	U2a	051 206C 230 265T 304 311 456 519	73 263 309+C 315+C	16003-16569/1-600					-			12059-12450=12308 12372	Rakhine	Rakhine
14	Burman849*	M38	092 111 184 223 519	73 246 263 315+C 489	16021-16569/1-492									Rakhine	Rakhine
14	Burman850	M38	092 111 184 223 519	73 246 263 315+C 489	16043-16569/1-583								15012-15571=15043 15301 15314 15326 15487	Rakhine	Rakhine
14	Burman851	D4g2a	174 223 274 304 362 519	73 263 298 309+CC 315+C	16017-16569/1-316		-	-						Rakhine	Rakhine

Code	Sample nam	Haplogroup	HVS-I (16000+)	HVS-II	Readable Region	9bp	4831*Hha*1	5176*Alu*1	9820*Hinf*1	12406*Hpa*1	13262*Alu*1	14465*Acc*1	Coding-Region Polymorphisms	Location	Nation
14	Burman852	U2	051 114A	73 146 215 263 309+C 315+C	16042-16569/1-474								12043-12354=12106 12308	Rakhine	Rakhine
14	Burman853	B4c2	183C 184A 189 217 235 519	73 263 309+CC 315+C	16019-16569/1-316	+								Rakhine	Rakhine
14	Burman854	M7b	223 297	73 150 199 204 263 309+C 315+C 489	16018-16569/1-504				+					Rakhine	Rakhine

Note:

1. Population code is consistent with those in Table S6.
2. Suffixe "*" means the mtDNA of the sample has been completely sequenced.

Table S3. AMOVA results based on mtDNA haplogroup frequencies.

Groups	Number of populations	Number of groups	Molecular variation								
			Among populations			Among populations within groups			Among groups		
			%	Fst	P	%	Fsc	P	%	Fct	P
Language family (AA vs. TK vs. TB vs. HM)	129	4	91.33	0.08871	$<10^{-5}$	6.95	0.07090	$<10^{-5}$	1.92	0.01917	$<10^{-5}$

Table S4. Admixture analysis of the Myanmar populations by comparing with their potential parental populations.

	Hybrid populations							
Parental groups	Burmans_1	Burmans_2	Burmans_3	Burmans_4	Burmans_5	Burmans_6	Naga_1	Naga_2
TB_Bangladesh	0.000±0.106	0.247±0.097	0.252±0.130	0.063±0.102	0.338±0.080	0.212±0.094	0.000±0.178	0.144±0.150
TB_India	0.000±0.134	0.116±0.121	0.212±0.163	0.379±0.128	0.189±0.100	0.000±0.118	0.903±0.223	0.129±0.189
TB_Thailand	0.000±0.188	0.000±0.170	0.065±0.229	0.079±0.180	0.032±0.141	0.000±0.166	0.000±0.314	0.000±0.265
TB_Tibet and QH	0.001±0.151	0.000±0.137	0.182±0.184	0.050±0.145	0.016±0.113	0.001±0.133	0.000±0.251	0.194±0.213
TB_SWC	0.000±0.332	0.259±0.301	0.000±0.405	0.146±0.318	0.189±0.249	0.000±0.293	0.000±0.554	0.533±0.469
AA_Cambodia	0.000±0.117	0.000±0.106	0.000±0.143	0.000±0.112	0.000±0.087	0.000±0.103	0.000±0.195	0.000±0.165
AA_India	0.344±0.133	0.000±0.120	0.057±0.162	0.048±0.127	0.000±0.099	0.002±0.117	0.000±0.221	0.000±0.187
AA_Malaysia	0.000±0.083	0.094±0.075	0.067±0.102	0.132±0.080	0.081±0.062	0.000±0.073	0.019±0.139	0.000±0.118
AA_Thailand	0.000±0.151	0.000±0.137	0.000±0.184	0.000±0.145	0.000±0.113	0.000±0.133	0.003±0.252	0.000±0.213
AA_Vietnam	0.398±0.365	0.000±0.331	0.000±0.446	0.000±0.351	0.000±0.274	0.000±0.322	0.000±0.610	0.000±0.516
AA_Yunnan	0.201±0.122	0.218±0.110	0.025±0.149	0.000±0.117	0.155±0.091	0.000±0.108	0.000±0.203	0.000±0.172
HM_South China	0.057±0.444	0.000±0.403	0.000±0.543	0.000±0.426	0.000±0.333	0.000±0.392	0.000±0.742	0.000±0.627
HM_SWC	0.000±0.187	0.052±0.170	0.140±0.229	0.000±0.180	0.000±0.140	0.000±0.165	0.000±0.313	0.000±0.265
TK_SWC	0.000±0.208	0.015±0.189	0.000±0.255	0.104±0.200	0.000±0.156	0.785±0.184	0.075±0.348	0.000±0.294
TK_Thailand	0.000±0.403	0.000±0.366	0.000±0.493	0.000±0.387	0.000±0.302	0.000±0.356	0.000±0.674	0.000±0.570

	Hybrid populations							
Parental groups	Naga_3	Chin_1	Chin_2	Chin_3	Rakhine_1	Rakhine_2	Bamar_S	Karen_S
TB_Bangladesh	0.000±0.129	0.476±0.151	0.463±0.121	0.083±0.178	0.106±0.097	0.026±0.091	0.186±0.047	0.000±0.122
TB_India	0.000±0.162	0.341±0.190	0.285±0.152	0.397±0.224	0.201±0.121	0.000±0.115	0.104±0.059	0.000±0.153
TB_Thailand	0.000±0.227	0.183±0.267	0.057±0.214	0.156±0.315	0.000±0.170	0.000±0.161	0.081±0.083	0.000±0.215
TB_Tibet and QH	0.531±0.182	0.000±0.214	0.191±0.172	0.057±0.252	0.046±0.137	0.000±0.129	0.048±0.066	0.000±0.172
TB_SWC	0.000±0.401	0.000±0.472	0.000±0.379	0.000±0.556	0.000±0.301	0.000±0.285	0.103±0.146	0.162±0.379
AA_Cambodia	0.000±0.141	0.000±0.166	0.000±0.133	0.000±0.195	0.000±0.106	0.000±0.100	0.000±0.051	0.033±0.133
AA_India	0.414±0.160	0.000±0.189	0.000±0.151	0.004±0.222	0.071±0.120	0.139±0.114	0.016±0.058	0.000±0.152
AA_Malaysia	0.016±0.101	0.000±0.118	0.000±0.095	0.000±0.139	0.029±0.075	0.000±0.071	0.035±0.037	0.074±0.095
AA_Thailand	0.000±0.182	0.000±0.214	0.000±0.172	0.071±0.253	0.000±0.137	0.000±0.129	0.000±0.066	0.007±0.172
AA_Vietnam	0.039±0.442	0.000±0.519	0.000±0.417	0.000±0.612	0.000±0.331	0.000±0.313	0.000±0.161	0.000±0.417
AA_Yunnan	0.000±0.147	0.000±0.173	0.004±0.139	0.231±0.204	0.107±0.111	0.000±0.105	0.034±0.054	0.444±0.139
HM_South China	0.000±0.537	0.000±0.631	0.000±0.507	0.000±0.744	0.000±0.403	0.000±0.381	0.057±0.196	0.000±0.508
HM_SWC	0.000±0.227	0.000±0.267	0.000±0.214	0.000±0.314	0.000±0.170	0.000±0.161	0.010±0.083	0.000±0.214
TK_SWC	0.000±0.252	0.000±0.296	0.000±0.238	0.000±0.349	0.439±0.189	0.835±0.179	0.000±0.092	0.000±0.238
TK_Thailand	0.000±0.488	0.000±0.573	0.000±0.460	0.000±0.676	0.000±0.366	0.000±0.346	0.326±0.178	0.280±0.461

Note: TB: Tibeto-Burman; AA: Austro-Asiatic; HM:Hmong-Mien; TK: Tai-Kadai; QH: Qinghai province, China; SWC: southwestern China. Bamar_S and Karen_S came from Summerer's study[1].

Reference for Table S4

1. Summerer M, *et al.* Large-scale mitochondrial DNA analysis in Southeast Asia reveals evolutionary effects of cultural isolation in the multi-ethnic population of Myanmar. *BMC Evol. Biol.* **14,** 17 (2014).

Supplementary Table S6. Information of 129 populations analysed in the present study.

Code	Population	Location	Country	Longitude	Latitude	Language	Size	Reference
1	Burmans_1	Sagaing	Myanmar	95.43	21.83	Tibeto-Burman	32	This study
2	Burmans_2	Sagaing	Myanmar	94.05	23.36	Tibeto-Burman	53	This study
3	Burmans_3	Sagaing	Myanmar	94.56	23.84	Tibeto-Burman	51	This study
4	Burmans_4	Magway	Myanmar	94.58	20.56	Tibeto-Burman	122	This study
5	Burmans_5	Bago	Myanmar	95.74	17.78	Tibeto-Burman	69	This study
6	Burmans_6	Ayeyarwady	Myanmar	95.25	18.35	Tibeto-Burman	72	This study
7	Chin_1	Chin	Myanmar	93.69	23.48	Tibeto-Burman	58	This study
8	Chin_2	Chin	Myanmar	93.45	21.56	Tibeto-Burman	187	This study
9	Chin_3	Magway	Myanmar	94.26	20.15	Tibeto-Burman	13	This study
10	Naga_1	Sagaing	Myanmar	95.30	25.90	Tibeto-Burman	32	This study
11	Naga_2	Sagaing	Myanmar	94.92	25.50	Tibeto-Burman	30	This study
12	Naga_3	Sagaing	Myanmar	94.98	25.18	Tibeto-Burman	39	This study
13	Rakhine_1	Magway	Myanmar	94.10	21.70	Tibeto-Burman	24	This study
14	Rakhine_2	Rakhine	Myanmar	94.78	18.69	Tibeto-Burman	63	This study
15	Adi	Assam	India	92.92	26.30	Tibeto-Burman	45	1
16	Apatani	Arunachal Pradesh	India	94.06	28.31	Tibeto-Burman	26	1
17	Apatani	Tripura	India	91.99	23.99	Tibeto-Burman	21	1
18	Naga	Nagaland	India	94.72	26.19	Tibeto-Burman	43	1
19	Nishi	Tripura	India	91.99	23.99	Tibeto-Burman	44	1
20	Tipperah	Tripura	India	91.99	23.99	Tibeto-Burman	20	2

Code	Population	Location	Country	Longitude	Latitude	Language	Size	Reference
21	Garo	Meghlaya	India	90.55	25.58	Tibeto-Burman	76	3
22	Lyngngam	Meghlaya	India	90.92	25.38	Austro-Asiatic	74	3
23	Nongtrai	Meghlaya	India	91.13	25.85	Austro-Asiatic	27	3
24	Maram	Meghlaya	India	91.23	25.50	Austro-Asiatic	60	3
25	Bhoi	Meghlaya	India	91.75	25.96	Austro-Asiatic	29	3
26	Khynriam	Meghlaya	India	91.79	25.54	Austro-Asiatic	82	3
27	War_Khas	Meghlaya	India	91.94	25.21	Austro-Asiatic	29	3
28	Pnar	Meghlaya	India	92.31	25.47	Austro-Asiatic	51	3
29	War_Jaint	Meghlaya	India	92.32	25.20	Austro-Asiatic	17	3
30	Tibetan	Nagqu, Tibet	China	92.04	31.64	Tibeto-Burman	168	4
31	Tibetan	Rikaze, Tibet	China	88.90	29.40	Tibeto-Burman	220	4
32	Tibetan	Liangshan, Sichuan	China	102.27	27.89	Tibeto-Burman	62	4
33	Tibetan	Guide, Qinghai	China	101.43	36.05	Tibeto-Burman	76	4
34	Tibetan	Chamdo, Tibet	China	97.17	31.27	Tibeto-Burman	61	5
35	Tibetan	Garze, Sichuan	China	101.96	30.06	Tibeto-Burman	55	5
36	Tibetan	Lhasa, Tibet	China	91.14	29.65	Tibeto-Burman	59	5
37	Tibetan	Nagqu, Tibet	China	92.04	31.75	Tibeto-Burman	58	5
38	Monba	Nyingchi, Tibet	China	94.39	29.71	Tibeto-Burman	51	5
39	Tibetan	Nyingchi, Tibet	China	94.28	29.43	Tibeto-Burman	53	5
40	Lhoba	Shannan, Tibet	China	91.75	29.28	Tibeto-Burman	20	5
41	Tibetan	Shannan, Tibet	China	91.78	28.84	Tibeto-Burman	56	5

Code	Population	Location	Country	Longitude	Latitude	Language	Size	Reference
42	Tibetan	Rikaze, Tibet	China	88.62	28.87	Tibeto-Burman	59	5
43	Hani-YN	Xishuangbanna, Yunnan	China	100.80	22.04	Tibeto-Burman	80	6
44	Bai-YN1	Dali	China	100.23	25.73	Tibeto-Burman	69	6, 7
45	Bai-YN2	Xishuangbanna	China	100.81	22.05	Tibeto-Burman	19	6
46	Yi-YN1	Xishuangbanna	China	100.80	22.06	Tibeto-Burman	16	6
47	Yi-YN2	Chuxiong	China	101.53	25.05	Tibeto-Burman	40	6
48	Jino-YN	Xishuangbanna	China	100.80	22.05	Tibeto-Burman	18	6
49	Lahu-YN	Simao, Xishuangbanna	China	100.97	22.80	Tibeto-Burman	37	6, 8, 9
50	Pumi-YN	Ninglang	China	100.85	27.31	Tibeto-Burman	35	6
51	Naxi-YN	lijiang	China	100.23	26.88	Tibeto-Burman	45	6
52	Zang-YN1	Diqing	China	99.70	27.82	Tibeto-Burman	88	4, 9
53	Zang-YN2	Zhongdian	China	99.70	27.86	Tibeto-Burman	35	6
54	Lisu-YN	Gongshan	China	98.66	27.76	Tibeto-Burman	30	7
55	Va-1	Simao	China	100.98	22.80	Austro-Asiatic	22	9
56	Va-1	Gengma,Ximeng	China	99.40	23.57	Austro-Asiatic	36	8
57	Bugan	Xichou	China	104.67	23.45	Austro-Asiatic	32	10
58	Dai-YN1	Jinghong	China	100.80	22.05	Tai-Kadai	81	7, 10
59	Dai-YN2	Xishuangbanna	China	100.79	22.04	Tai-Kadai	21	9
60	Buyang-YN	Guangnan	China	105.06	24.07	Tai-Kadai	31	10
61	Lachi-YN	Maguan	China	104.40	23.03	Tai-Kadai	30	10
62	OT-YN	Malipo	China	104.70	23.14	Tai-Kadai	25	10

Code	Population	Location	Country	Longitude	Latitude	Language	Size	Reference
63	GL-YN	Malipo	China	104.71	23.15	Tai-Kadai	14	10
64	Miao-YN	Wenshan	China	104.25	23.37	Hmong-Mien	39	11
65	Yao-YN1	Mengla	China	101.57	21.49	Hmong-Mien	37	11
66	Yao-YN2	Malipo	China	104.72	23.16	Hmong-Mien	40	11
67	BY-GZ1	Libo	China	107.89	25.42	Tai-Kadai	33	10
68	BY-GZ2	Pingtang	China	107.32	25.85	Tai-Kadai	30	10
69	GL-GZ1	Bijie	China	105.28	27.33	Tai-Kadai	12	10
70	GL-GZ2	Majiang	China	107.59	26.50	Tai-Kadai	29	10
71	GL-GZ3	Dafang	China	105.61	27.16	Tai-Kadai	31	10
72	Yao-HN1	Jishou	China	109.70	28.27	Hmong-Mien	103	11
73	Yao-HN2	Jianghua	China	111.58	25.20	Hmong-Mien	24	11
74	ML-GX	Luocheng	China	108.90	24.80	Tai-Kadai	66	10, 12
75	Maonan-GX	Huanjiang	China	108.25	24.84	Tai-Kadai	32	10
76	Caolan-GX	Fangcheng	China	108.35	21.79	Tai-Kadai	30	10
77	Sui-GX	Rongshui	China	109.26	25.08	Tai-Kadai	30	10
78	Zhuang-GX1	Tianlin	China	106.23	24.32	Tai-Kadai	25	10
79	Zhuang-GX2	Hezhou	China	111.56	24.41	Tai-Kadai	55	12
80	WS-GX	Rongshui	China	109.26	25.09	Tai-Kadai	33	10
81	Yerong-GX	Napo	China	105.83	23.40	Tai-Kadai	15	10
82	GL-GX	Longlin	China	105.36	24.90	Tai-Kadai	30	10
83	Dong-GX	Sanjiang	China	109.60	25.79	Tai-Kadai	72	12

Code	Population	Location	Country	Longitude	Latitude	Language	Size	Reference
84	Yao-GX1	Dahua	China	108.00	23.77	Hmong-Mien	19	11
85	Yao-GX2	Tianlin	China	106.22	24.31	Hmong-Mien	64	11
86	Yao-GX3	Fuchuan	China	111.28	24.82	Hmong-Mien	102	11, 12
87	Yao-GX4	Fangcheng	China	108.38	21.80	Hmong-Mien	30	11
88	Yao-GX5	Hezhou	China	111.58	24.43	Hmong-Mien	41	11
89	Yao-GX6	Shangsi	China	107.98	22.17	Hmong-Mien	32	11
90	Yao-GX7	Jinxiu	China	110.19	24.14	Hmong-Mien	67	12
91	Yao-GD	Liannan	China	107.98	22.17	Hmong-Mien	35	12
92	Danga-HI	Lingshui	China	110.04	18.51	Tai-Kadai	40	10
93	Lingao-HI	Lingao	China	109.69	19.91	Tai-Kadai	31	10
94	Hlai-Qi-HI	Tongza	China	109.52	18.78	Tai-Kadai	34	10
95	Jiamao-HI	Baoting	China	109.70	18.64	Tai-Kadai	27	10
96	Cun-HI	Dongfang	China	108.65	19.11	Tai-Kadai	30	10
97	Kinh	Hanoi	Vietnam	105.85	21.03	Austro-Asiatic	139	13
98	Middle Viet	Middle Vietnam	Vietnam	107.58	16.47	Austro-Asiatic	62	10
99	Northern VIE1	Hanoi	Vietnam	105.90	21.10	Austro-Asiatic	187	14
100	Northern VIE2	Vietnam	Vietnam	105.00	21.20	Austro-Asiatic	42	15
101	Viet-South	South Vietnamese from California	Vietnam	104.99	10.49	Austro-Asiatic	35	16
102	Thai-KK	Khon Kaen	Thailand	102.62	16.02	Tai-Kadai	44	17
103	Phuthai-THA	Nakhon Pathom	Thailand	100.17	13.99	Tai-Kadai	25	17
104	LSg-THA	Suphan Buri	Thailand	99.99	14.56	Tai-Kadai	25	17

Code	Population	Location	Country	Longitude	Latitude	Language	Size	Reference
105	Thai-CM	Chiang Mai	Thailand	98.67	18.88	Tai-Kadai	220	17, 18
106	Thai-Jin	Thailand	Thailand	99.67	17.25	Tai-Kadai	40	15
107	Thai-Yao	Northern Thailand	Thailand	99.34	18.85	Tai-Kadai	34	7
108	Thai-Korat	Thailand	Thailand	99.69	17.26	Tai-Kadai	32	19
109	Akha	Chiang Rai	Thailand	99.72	19.91	Tibeto-Burman	91	20
110	Lahu	Chiang Mai	Thailand	99.72	19.91	Tibeto-Burman	39	20
111	Lisu	Chiang Mai	Thailand	99.72	19.91	Tibeto-Burman	54	20
112	Lisu	Chiang Rai	Thailand	99.72	19.91	Tibeto-Burman	41	20
113	Lisu	Mae Hong Son	Thailand	97.87	18.78	Tibeto-Burman	25	20
114	Mussur	Chiang Mai	Thailand	99.72	19.91	Tibeto-Burman	21	17
115	Lisu_4	Chiang Mai	Thailand	97.87	18.78	Tibeto-Burman	25	17
116	Sakai	Trang	Thailand	99.64	7.61	Austro-Asiatic	20	17
117	Chong	Chanthaburi	Thailand	102.16	12.82	Austro-Asiatic	25	17
118	Khm	Northeast Thailand	Thailand	102.16	12.82	Austro-Asiatic	22	19
119	ChB	Northeast Thailand	Thailand	102.25	14.93	Austro-Asiatic	20	19
120	Cambodia	Siem Reap, NW cambodia	Cambodia	103.86	13.37	Austro-Asiatic	31	21
121	Semang	West Malaysia	Malaysia	101.80	4.80	Austro-Asiatic	112	22
122	Senoi	West Malaysia	Malaysia	101.88	5.06	Austro-Asiatic	52	22
123	Semelai	West Malaysia	Malaysia	102.25	2.90	Austro-Asiatic	61	22
124	Nicobarese	Eastern India	India	92.46	10.64	Austro-Asiatic	46	23, 24
125	Barma	Myanmar	Myanmar	98.06	16.65	Tibeto-Burman	116	25

Code	Population	Location	Country	Longitude	Latitude	Language	Size	Reference
126	Karen	Myanmar	Myanmar	97.97	17.05	Tibeto-Burman	155	25
127	Chakma	Chittagong hill tract	Bangladesh	91.83	22.40	Tibeto-Burman	108	26
128	Marma	Chittagong hill tract	Bangladesh	91.80	22.37	Tibeto-Burman	97	26
129	Tripura	Chittagong hill tract	Bangladesh	91.82	22.29	Tibeto-Burman	97	26
Totally							**6,752**	

References for Table S6

1. Cordaux, R. *et al.* Mitochondrial DNA analysis reveals diverse histories of tribal populations from India. *Eur. J. Hum. Genet.* **11,** 253-264 (2003).
2. Roychoudhury, S *et al.* Genomic structures and population histories of linguistically distinct tribal groups of India. *Hum. genet.* **109,** 339-350 (2001).
3. Reddy, B. M. *et al.* Austro-Asiatic tribes of Northeast India provide hitherto missing genetic link between South and Southeast Asia. *PLoS ONE* **2,** e1141 (2007).
4. Zhao, M. *et al.* Mitochondrial genome evidence reveals successful Late Paleolithic settlement on the Tibetan Plateau. *Proc. Natl. Acad. Sci. USA* **106,** 21230-21235 (2009).
5. Qin, Z. D. *et al.* A Mitochondrial Revelation of Early Human Migrations to the Tibetan Plateau Before and After the Last Glacial Maximum. *Am. J. Phys. Anthropol.* **143,** 555-569 (2010).
6. Wen, B. *et al*. Analyses of genetic structure of Tibeto-Burman populations reveals sex-biased admixture in southern Tibeto-Burmans. *Am. J. Hum. Genet.* **74,** 856-865 (2004).
7. Yao, Y. G. *et al.* Genetic relationship of Chinese ethnic populations revealed by mtDNA sequence diversity. *Am. J. Phys. Anthropol.* **118,** 63-76 (2002).
8. Yao, Y. G. & Zhang, Y. P. Phylogeographic analysis of mtDNA variation in four ethnic populations from Yunnan Province: new data and a reappraisal. *J. Hum. Genet.* **47,** 311-318 (2002).
9. Qian, Y. P. *et al.* Mitochondrial DNA polymorphisms in Yunnan nationalities in China. *J. Hum. Genet.* **46,** 211-220 (2001).
10. Li, H. *et al.* Mitochondrial DNA diversity and population differentiation in southern East Asia. *Am. J. Phys. Anthropol.* **134,** 481-488 (2007).
11. Wen, B. *et al.* Genetic structure of Hmong-Mien speaking populations in East Asia as revealed by mtDNA lineages. *Mol. Biol. Evol* **22,** 725-734 (2005).

12. Gan, R. J. *et al.* Pinghua population as an exception of Han Chinese's coherent genetic structure. *J. Hum. Genet.* **53,** 303-313 (2008).
13. Peng, M. S., *et al.* Tracing the Austronesian Footprint in Mainland Southeast Asia: A Perspective from Mitochondrial DNA. *Mol. Biol. Evol.* **27,** 2417-2430 (2010).
14. Irwin, J. A. *et al.* Mitochondrial control region sequences from a Vietnamese population sample. *Int. J. Legal. Med.* **122,** 257-259 (2008).
15. Jin, H. J., Tyler-Smith, C. & Kim, W. The peopling of Korea revealed by analyses of mitochondrial DNA and Y-chromosomal markers. *PLoS ONE* **4,** e4210 (2009).
16. Oota, H. *et al.* Extreme mtDNA homogeneity in continental Asian populations. *Am. J. Phys. Anthropol.* **118,** 146-153 (2002).
17. Fucharoen, G., Fucharoen, S. & Horai, S. Mitochondrial DNA polymorphisms in Thailand. *J. Hum. Genet.* **46,** 115-125 (2001).
18. Zimmermann, B. *et al.* Forensic and phylogeographic characterization of mtDNA lineages from northern Thailand (Chiang Mai). *Int. J. Legal. Med.* **123,** 495-501 (2009).
19. Lertrit, P. *et al.* Genetic history of Southeast Asian populations as revealed by ancient and modern human mitochondrial DNA analysis. *Am. J. Phys. Anthropol.* **137,** 425-440 (2008).
20. Oota, H., Settheetham-Ishida, W., Tiwawech, D., Ishida, T. & Stoneking, M. Human mtDNA and Y-chromosome variation is correlated with matrilocal versus patrilocal residence. *Nat. Genet.* **29,** 20-21 (2001).
21. Black, M. L., Dufall, K., Wise, C., Sullivan, S. & Bittles, A. H. Genetic ancestries in northwest Cambodia. *Ann. Hum. Biol.* **33,** 620-627 (2006).
22. Hill, C. *et al*. Phylogeography and ethnogenesis of aboriginal Southeast Asians. *Mol. Biol. Evol.* **23,** 2480-2491 (2006).
23. Prasad, B. V. *et al.* Mitochondrial DNA variation in Nicobarese Islanders. *Hum. Biol.* **73,** 715-725 (2001).
24. Thangaraj, K. *et al.* Genetic affinities of the Andaman Islanders, a vanishing human population. *Curr. Biol.* **13,** 86-93 (2003).
25. Summerer, M. *et al.* Large-scale mitochondrial DNA analysis in Southeast Asia reveals evolutionary effects of cultural isolation in the multi-ethnic population of Myanmar. *BMC Evol. Biol.* **14,** 17 (2014).
26. Gazi, N. N. *et al.* Genetic Structure of Tibeto-Burman Populations of Bangladesh: Evaluating the Gene Flow along the Sides of Bay-of-Bengal. *PLoS ONE* **8,** e75064 (2013).

Supplementary Table S7 (A total of 777 populations, 47,873 individuals)

Population, Region/Country	Sample Size	References
East Asia		
Manchurian, China	40	1
Korean-Chinese, South Korea	51	1
Korean, South Korea	185	1
Chinese Han, Beijing, China	40	1
Hong Kong people, Hong Kong, China	377	2
Ancient workers, China	19	3
Japanese, Japan	4	4
Chinese, China	5	4
Tibetan, China	168	5
Tibetan, China	220	5
Tibetan, China	71	5
Tibetan, China	62	5
Tibetan, China	61	6
Tibetan, China	55	6
Tibetan, China	59	6
Tibetan, China	58	6
Tibetan, China	46	6
Monba, China	51	6
Tibetan, China	53	6
Lhoba, China	20	6
Tibetan, China	56	6
Tibetan, China	59	6
Tibetan, China	44	6
Tibetan, China	40	7
Bai, China	40	8
Hani, China	33	8
Lahu, China	15	8
Naxi, China	45	8
Pumi, China	35	8
Tibetan, China	35	8
Yi, China	56	8
Lahu, China	35	9
Lahu, China	32	10
Tibetan, China	24	10
Va, China	36	9
Va, China	22	10
Hui, China	45	11
Kazak, China	53	11
Mongoloid, China	49	11
Uygur, China	47	11

Uzbek, China	58	11
Bonan, China	95	12
Dongxiang, China	96	13
Salar, China	99	14
Salar, China	10	15
Yugur, China	100	16
Dongxiang, China	10	15
Xiaohe cemetery, China	20	17
Xiaohe cemetery , China	17	18
Daheyan, Xinjiang, China	58	19
Niya Site, Xinjiang, China	14	20
Yuansha Ruins, Xinjiang, China	15	20
Zagunluke Cemetery, Xinjiang, China	13	20
Ancient samples from Xinjiang, China	11	21
Taiyuan, Shanxi, China	2	18
Daur, China	45	22
Ewenki, China	47	22
Kor, China	48	22
Mongoloid, China	48	22
Oro, China	44	22
Kor-S, China	55	23
H-Anhui, China	42	24
H-Fujian, China	51	24
H-Gansu, China	45	24
H-Guangxi, China	26	24
H-Hunan, China	16	24
H-Jiangsu, China	67	24
H-Jiangxi, China	23	24
H-Liaoning, China	51	24
H-Neimeng, China	45	24
H-Qinhai, China	44	24
H-Shanghai, China	56	24
H-Shannxi, China	53	24
H-Sichuan, China	70	24
H-Yunnan, China	58	24
H-Zhejiang, China	61	24
H-GD, China	30	25
H-LN, China	51	25
H-QD, China	50	25
H-WH, China	42	25
H-XJ, China	47	25
H-YN, China	43	25
H-SD, China	76	26
Han, Yan Bian, Jilin, China	51	23

Ab-Taiwanese, China	180	27
TW-Han, China	155	28
H-GD, China	69	29
C-SH, China	120	30
H-CS, China	82	31
H-Xi'an, China	85	31
Aini, China	47	8
BAI, China	19	8
Jino, China	18	8
QH-Tib, China	56	8
Tujia, China	66	8
Tujia, China	31	8
YN-Dai, China	21	10
YN-Dai, China	38	7
MHN, China	103	32
MYN, China	39	32
YBN, China	19	32
YBP, China	35	32
YDB, China	10	32
YGS, China	24	32
YHT, China	19	32
YKM, China	40	32
YLO, China	42	32
YLT, China	26	32
YMB, China	6	32
YMI, China	32	32
YPA, China	32	32
YTU, China	41	32
YWU, China	31	32
YXB, China	11	32
YYM, China	27	32
Q_Tib, China	76	5
G_Tib, China	83	5
XZ-Lhoba, China	50	Our unpublished data
XZ-Monba, China	31	Our unpublished data
wanyan, China	46	Our unpublished data
Japanese, Japan	50	33
Japanese, Japan	162	34
Japanese, Japan	211	35
Gifu, Japan	137	36
Japanese, Japan	150	30
Japanese, Japan	100	37
Japanese, Japan	124	38
Japanese, Japan	62	39

Ainu, Japan	50	39
Pyukyuan, Japan	50	39
Achang-YN, China	60	Our unpublished data
Bai-YN, China	21	Our unpublished data
Bai-YN, China	19	Our unpublished data
Blang-YN, China	90	Our unpublished data
Dai-YN, China	46	Our unpublished data
Dai-YN, China	24	Our unpublished data
Dai-YN, China	30	Our unpublished data
Dai-YN, China	27	Our unpublished data
Deang-YN, China	52	Our unpublished data
Drung -YN, China	35	Our unpublished data
Hani-YN, China	9	Our unpublished data
Hani-YN, China	39	Our unpublished data
Hani-YN, China	18	Our unpublished data
Jingpo-YN, China	60	Our unpublished data
Jino-YN, China	51	Our unpublished data
Lahu-YN, China	26	Our unpublished data
Lahu-YN, China	36	Our unpublished data
Lisu-YN, China	31	Our unpublished data
Lisu-YN, China	20	Our unpublished data
Lisu-YN, China	18	Our unpublished data
Naxi-YN, China	62	Our unpublished data
Naxi-YN, China	6	Our unpublished data
Nu-YN, China	40	Our unpublished data
Pumi-YN, China	19	Our unpublished data
Pumi-YN, China	25	Our unpublished data
Tibetan-YN, China	11	Our unpublished data
Tibetan-YN, China	54	Our unpublished data
Wa-YN, China	14	Our unpublished data
Yao-YN, China	8	Our unpublished data
Yi-YN, China	28	Our unpublished data
Yi-YN, China	67	Our unpublished data
Blang-YN, China	48	Our unpublished data
DL-YN, China	48	Our unpublished data
Dongxiang-GS, China	63	Our unpublished data
GL-GZ, China	102	Our unpublished data
GX-Dong, China	100	Our unpublished data
GX-Maonan, China	48	Our unpublished data
GX-Mulam, China	48	Our unpublished data
GX-Yao, China	29	Our unpublished data
GZ-Bouyei, China	85	Our unpublished data
GZ-Miao, China	35	Our unpublished data
GZ-She, China	49	Our unpublished data

GZ-Shui, China	64	Our unpublished data
GZ-Yao, China	40	Our unpublished data
Han-GS, China	43	Our unpublished data
Han-JS, China	1	Our unpublished data
Han-NX, China	111	Our unpublished data
Han-SX, China	2	Our unpublished data
Hainan-Li, China	59	Our unpublished data
HN-Miao, China	49	Our unpublished data
HN-Tujia, China	46	Our unpublished data
HN-Yao, China	52	Our unpublished data
Hui-QH, China	33	Our unpublished data
Hui-GS, China	21	Our unpublished data
IM-Buryat, China	59	Our unpublished data
IM-Man, China	122	Our unpublished data
IM-Xibe, China	49	Our unpublished data
Li-HI, China	216	Our unpublished data
LN-Man, China	31	Our unpublished data
Han-BJ, China	45	Our unpublished data
Han-QH, China	142	Our unpublished data
QH-Tu, China	64	Our unpublished data
QJ-YN, China	40	Our unpublished data
Sala-QH, China	16	Our unpublished data
XM, China	40	Our unpublished data
YN-Bai, China	66	Our unpublished data
YN-Blang, China	37	Our unpublished data
YN-Dai, China	85	Our unpublished data
YN-Hani, China	44	Our unpublished data
YN-Jino, China	31	Our unpublished data
YN-Kucong, China	34	Our unpublished data
YN-Lisu, China	43	Our unpublished data
YN-Mosuo, China	64	Our unpublished data
YN-Naxi, China	56	Our unpublished data
YN-Pumi, China	59	Our unpublished data
YN-Yi, China	90	Our unpublished data
Zhuang-GX, China	79	Our unpublished data
Han-GD, China	105	40
HHT-NM, China	107	41
LQ-NM, China	48	41
TH-YN, China	46	41
AC, China	6	42
BG, China	32	42
BU, China	31	42
CL, China	30	42
CU, China	30	42

CX, China	25	42
CY, China	12	42
DA, China	56	42
DG, China	40	42
DN, China	10	42
GA, China	42	42
HL, China	34	42
HS, China	30	42
JM, China	27	42
LC, China	30	42
LG, China	31	42
LL, China	4	42
LQ, China	25	42
MK, China	33	42
ML, China	39	42
MN, China	32	42
MO, China	29	42
MQ, China	17	42
PO, China	34	42
PY, China	30	42
RG, China	31	42
TN, China	30	42
WG, China	14	42
WS, China	33	42
YR, China	15	42
HAN- Chaoshan, GD, China	102	43
HAN- Meizhou, GD, China	170	43
Northern-Han, China	60	44
Japanese_Honshu, Japan	82	44
Indonesian, Indonesian	54	44
Koryak-KMAN, Koryak	110	44
Japanese_Kyushu, Japan	104	44
Malaysian-MAL, Malaysian	52	44
Nivkhi, Nivkhi	57	44
Okinawa, Japan	45	44
Philippine, Philippine	29	44
Philippine, Philippine	30	44
Kam, China	72	45
Laka, China	67	45
Mien, China	29	45
Mulam, China	27	45
Pinghua_Han, China	39	45
Pinghua_Han, China	48	45
Pinghua_Han, China	111	45

Zhuang_GB, China	54	45
Zhuang_GB, China	4	45
Zhuang_GB, China	9	45
Zhuang_GB, China	10	45
Bunun, China	18	46
Atayal, China	18	46
Amis, China	21	46
Paiwan, China	21	46
Undefined, Taiwan China	64	47
Han-JS, China	99	Our unpublished data
HSK-XJ, China	44	Our unpublished data
Kirgiz-XJ, China	60	Our unpublished data
Mg-XJ, China	96	Our unpublished data
Tajik-XJ, China	56	Our unpublished data
Uyu-XJ, China	274	Our unpublished data
Uzbek-XJ, China	46	Our unpublished data
Han-HLJ, China	180	Our unpublished data
Han-SX, China	220	Our unpublished data
Han-JL, China	199	Our unpublished data
Han-LN, China	191	Our unpublished data
Han-HN, China	1502	48
Han-YN, China	396	Our unpublished data
Han-SN, China	398	Our unpublished data
Han-AH, China	375	Our unpublished data
Han cancer of the esophagus, China	190	49
Han cancer of the esophagus, China	106	Our unpublished data
Han-SC, China	556	Our unpublished data
Han-SC, China	214	Our unpublished data
Han-SC, China	312	Our unpublished data
Koreans 103, South Korea	103	50
ZA_Chamdo_Ji, China	29	51
ZA_Lhasa_Ji, China	44	51
ZA_Nyingchi_Ji, China	52	51
ZA_Shigatse_Ji, China	29	51
ZA_Shannan_Ji, China	55	51
ZA_Nakchu_Ji, China	5	51
Tib_Ji, China	73	51
Tibetan, China	156	52
Korean, South Korea	694	53
HA, Shandong, China	253	Our unpublished data
HA, Neimeng, China	141	Our unpublished data
Dongbei, China	249	Our unpublished data
QI, Sichuan, China	60	Our unpublished data
Southeast Asia		

Vietnamese, Vietnam	42	1
Thais, Thailand	40	1
Vietnamese, Vietnam	187	54
Burman, Karen, Myanmar	327	55
Thai LHON, Thailand	42	Tharaphan et al. GenBank DQ149024-DQ149065
Indonesian, Sumatra, Pekanbaru, Indonesia	55	56
Indonesian, Sumatra, Medan, Indonesia	44	56
Malaysian, Semang, Malaysia	263	56
Malaysian, Melayu, Malaysia	4	56
Vietnamese, Vietnam	2	4
Samoan, Samoa	9	4
Philippines, Philippines	3	4
Borneo, Borneo	13	4
Java, Java	2	4
Burmans, Myanmar	32	This study
Burmans, Myanmar	54	This study
Burmans, Myanmar	51	This study
Burmans, Myanmar	122	This study
Burmans, Myanmar	69	This study
Burmans, Myanmar	72	This study
Chin, Myanmar	58	This study
Chin, Myanmar	13	This study
Chin, Myanmar	187	This study
Naga, Myanmar	30	This study
Naga, Myanmar	39	This study
Naga, Myanmar	32	This study
Rakhine, Myanmar	24	This study
Rakhine, Myanmar	63	This study
Akha, Thailand	91	57
Lahu, Thailand	39	57
Lisu, Thailand	25	57
Lisu, Thailand	42	57
Lisu, Thailand	53	57
Mussur, Thailand	21	57
Cham, Vietnam	168	58
Kinh, Vietnam	139	58
Thai, Thailand	190	59
Thai, Thailand	32	7
Cambodia, Cambodia	31	60
Thai, Thailand	30	61
Thai, Thailand	44	61

Lao Song, Thailand	25	61
ChB, Thailand	20	62
Khm, Thailand	22	62
Th_K, Thailand	32	62
Phuthai, Thailand	25	61
Chong, Thailand	25	61
Bangka, Sumatra, Indonesia	34	63
Batek, Malaysia	45	63
Jahai, Malaysia	39	63
Medan, Sumatra, Indonesia	42	63
Melayu, Malaysia	6	63
Mendriq, Malaysia	31	63
Padang, Malaysia	24	63
Palembang, Sumatra, Indonesia	50	63
Pekanbaru, Sumatra, Indonesia	52	63
Semai, Malaysia	6	63
Semelai, Malaysia	61	63
Temiar, Malaysia	46	63
Temuan, Malaysia	33	63
Philippine, Philippines	61	46
Java, Indonesia	46	46
Banjarmasin, Indonesia	89	46
Kota Kinabalu, Malaysia	61	46
Manado, Indonesia	89	46
Palu, Indonesia	38	46
Ujung Padang, Indonesia	46	46
Toraja, Indonesia	64	46
Bali, Indonesia	82	46
Mataram, Indonesia	44	46
Flores, Indonesia	2	46
Waingapu, Indonesia	50	46
Alor, Malaysia	45	46
Ambon, Indonesia	43	46
Luzon, Philippines	168	47
Visayas, Philippines	103	47
Mindanao, Philippines	70	47
Mal, Malaysia	124	64
HA, Singapore	205	65
Sakai, Thailand	20	61
Mussur, Thailand	21	61
White Karen, Thailand	40	57
Red Karen, Thailand	39	57
BK, Thailand	13	62
NUL, Thailand	17	62

Benu, Malaysia	10	66
Gopeng, Malaysia	22	66
Kuala Kurau, Malaysia	17	66
Lembah Bujang, Malaysia	26	66
Lenggeng, Malaysia	12	66
Machang, Malaysia	24	66
Kota Bharu, Malaysia	5	66
Muar, Malaysia	17	66
Parit Buntar, Malaysia	16	66
Parit Buntar, Malaysia	1	66
Pontian, Malaysia	20	66
Rantau Panjang, Malaysia	32	66
Semerah, Malaysia	13	66
Sri Menanti, Malaysia	22	66
Yan, Malaysia	11	66
Laos, Laos	214	67
South Asia		
Tipperah, India	20	68
Indians, Jammu and Kashmir, India	7	Bhat et al. GenBank AN. AY642034-AY642040
Indian, India	12	Darvishi et al. GenBank DQ143184-DQ143195
Indian, north India	4	Darvishi et al. GenBank DQ176757-DQ176760
Chakma, India	92	Our unpublished data
Ralt, India	104	Our unpublished data
Kuki, India	45	Our unpublished data
Adi, India	45	69
Apatani, India	26	69
Apatani, India	21	69
Naga, India	43	69
Nishi, India	44	69
Garo, India	76	70
Lyngnga, India	74	70
Nongtrai, India	27	70
Maram, India	60	70
Bhoi, India	29	70
Khynriam, India	82	70
War_Khas, India	29	70
Pnar, India	51	70
War_Jaint, India	17	70
Pakistani, Pakistan	100	71
Baluch, Pakistan	39	71
Brahui, Pakistan	38	71

Gujarati, India	34	71
Hazara, Pakistan	23	71
Hunza Burusho, Pakistan	44	71
Kalash, Pakistan	44	71
Makrani, Pakistan	33	71
Mazandarian, Pakistan	44	71
Pathan, Pakistan	44	71
Sindhi, Pakistan	23	71
Moor, Sri Lanka	43	72
Sinhalese, Sri Lanka	59	72
Indo-European, India	94	73
Dravidian, India	17	73
Kadar, India	7	74
Mixed MD, MDU, TH, India	96	Our unpublished data
Mixed DG, AMK, ARA, CNP, ERI, KAM, India	400	Our unpublished data
Mixed KAN, KAS, NAT, TNP, ODC, India	263	Our unpublished data
Mixed NGL, VRU,VEM, VKD, TN, MX, India	190	Our unpublished data
BadugaBad, India	2	75
Irula, India	16	68, 75
Kota, India	25	69
Kurumba, India	8	69
Kurumba Betta, India	19	69
Kurumba Mullu, Mulla Krumba, India	15	69
OoraliOo, India	3	75
SakkiliSak, India	6	75
Soligas, India	12	69
Malayalam , India	3	76
Cochin, India	52	72
Cochin Jews, India	37	72
Kattunaiken, India	16	69
Kuruchian, India	46	69
Kuruman Mullu, Mullu Kurunan, India	37	69
Paniya, India	11	69
Mixed TVM, India	64	Our unpublished data
Havik, India	38	74
Mukri, India	42	74
KannadaKA, India	5	76
Koragas, India	31	69
Kuruva, India	25	77
Kurumba Jenu, India	6	69
Yerava, India	53	69

Bhovi, India	30	78
Gowda, India	37	78
Brahmin, India	29	78
Lingayat, India	17	78
Christians, India	21	78
Muslim, India	24	78
Siddi, India	7	79
TeluguAndhra Pradesh, Ind, TE, India	15	76, 80, 81
Lambadi, India	75	80
Andh, AndhSA, AndhX, India	95	69, 82
BrahminBV, BN, India	34	80
KapuKT, KTK, KP, India	67	80, 83
Madiga, India	24	80
Yadava, India	40	80
Wadabahija, India	8	80
Mala, India	23	80
Kshatriya, India	9	80
Relli, India	20	80
Jalari, India	7	80
Vysya, India	9	80
Chenchu, India	96	84
Koya, India	81	84
ErukulaEr, India	5	75
YanadiYn, India	10	75
ThogataveeraT, India	84	Our unpublished data
ReddyR, India	68	Our unpublished data
Pardhi, India	38	69
Thoti, India	39	69
AkhutotaAK, India	22	83
PantaWatkins, et al., India	29	83
PokanatiPO, India	36	83
VanneVN, India	26	83
Irula, India	19	85
Chenchu, India	75	86
Kolam, India	128	86
Gond, India	75	86
NaikpodN, NP, Z, India	83	82
PardhanD, I, J, S, W, India	170	82
Chitpavan Brahmin, India	17	87
Desasth Brahmin, India	15	87
BrahminKBR, India	9	88
Konkanastha Brahmin, India	50	72
Dhangar, India	16	87
Maratha, India	30	87, 88, 89

Maharashtra, MarathiMA, Mah, India	29	76, 80
Nav-Baudh, India	17	88, 89
Parsi, India	37	72
Bohra, India	5	89
Irani, India	5	89
Korku, India	9	89
Madia Gond, India	13	89
Kolam, India	8	89
KathodiKa, India	1	75
KoliKo, India	6	75
Sikh, India	23	69
GujaratGuj, GJ, India	61	71, 72
Brahmin, India	29	90
Khatri, India	11	90
Jat Singh, India	27	72, 90
Scheduled caste, India	19	72, 90
Lobana, India	49	80
BrahminPuj, India	18	72
Kshatriya, India	22	72
PunjabP, PBAN, PHC, PNIR, PP, PPUR, PPUS, PRAJ, PRAM, PSUR, PSUS, PUSH , India	42	73, 81
Bhoksa, India	22	80
Tharu, India	31	72, 80
MundaMun, India	4	75
KoriKor, India	1	75
RohidasRo, India	1	75
YadavaYd, India	6	75
BhargavaA, India	165	Our unpublished data
ChaturvediB, India	82	Our unpublished data
Brahmin MixedC, India	146	Our unpublished data
Uttar Pradesh Brahmin, India	23	72
RajputRj, India	14	75
LodheLo, India	1	75
HI, U, Uttar Pradesh, USIN, UKIR, UANI, UBHA, UBOB, UCHA, UD, UHC, UJEA, India	93	73, 76, 80
Delhi, India	10	81
Kanet, India	29	72
Rajput, Rajsthan, India	33	72, 80
Kashmir, India	13	80
Baluch, Pakistan	14	71
Brahui, Pakistan	12	71
Hazara, Pakistan	12	71

Hunza Burusho, Pakistan	23	71
KarachiKAR, Pakistan, UR, Pakistan	74	71, 76, 80
Parsi, Pakistan	23	71
Pathan, Pakistan	23	71
SindhiSI, Pakistan	14	71
Pushtoons, Pakistan	16	69
Makrani, Pakistan	8	69
BI, BD, BHC, BSUY, BVIJ, Bihar, India	43	73, 76, 80
BhumijBhuJ, BM, India	60	90, 91
Ho, India	20	91
KhariaKhaJ, KHA, India	39	83, 91
KanwarKan, India	6	75
SatnamiSat, India	3	75
SanthalSa, SA, India	45	75, 83
AsurAS, India	30	83
MundaMU, India	23	83
BirhorBir, India	189	Our unpublished data
MundaMun, India	169	Our unpublished data
OranOR, India	169	Our unpublished data
PhariyaPha, India	160	Our unpublished data
BhariaBh, India	14	75
GondGo, Madia Gond, India	4	75, 85
OranOr, India	16	75
Muria, India	12	68
Brahmin, India	16	92
Gope, India	17	92
Juang, India	20	92
Karan, India	14	92
Khandayat, India	14	92
Paroja, India	21	92
Saora, India	17	92
Orisa, India	2	80
BE, Ben, Bengal, India	15	75, 76, 80
Bengal Brahmin, India	36	72
Bengal Sudra, India	8	72
RajbhansiSW, Ra, RJ, India	249	Our unpublished data
Kurmi, India	55	72
Lodha, Lodhar, India	68	68, 72
Munda, India	6	68
Santhal, India	14	68
DhimalDH, India	75	Our unpublished data
KolKL, India	73	Our unpublished data
LachungLA, India	35	Our unpublished data

MechME, India	45	Our unpublished data
MundaMun, India	40	Our unpublished data
OranOR, India	98	Our unpublished data
PhariyaPha, India	175	Our unpublished data
RabhaRV, India	49	Our unpublished data
SanthalSA, India	83	Our unpublished data
TotoTo, India	11	Our unpublished data
MixedSc, MX, WBX, India	409	Our unpublished data
BodoBO, India	65	Our unpublished data
MuslimM, India	71	Our unpublished data
Bangladesh, Bangladesh	1	80
BangS, Bangladesh	27	69
MixedBN, Bangladesh	143	Our unpublished data
Great Andamanese, India	20	93
Jarawa, India	4	93
Onge, India	62	93
Nicobarese, India	46	93, 94
Ao, India	19	75
Mixed BH, Bhutan	47	Our unpublished data
Mixed N, Nepal	61	Our unpublished data
Ladakhis-Bud, Kashmir	23	95
Ladakhis-Mus, Kashmir	9	95
Shia Muslim, India	120	96
Sunni Muslim, India	131	96
Dawoodi BohraTN, India	62	96
Dawoodi BohraGUJ, India	50	96
Mappla, India	61	96
Iranian Shia, India	48	96
Tharu-C I, Nepal	57	97
Tharu-C II, Nepal	76	97
Tharu-E, Nepal	40	97
Nepal-Kathamandu, Nepal	200	Our unpublished data
Nepal-East Nepal, Nepal	46	Our unpublished data
Tamang, Nepal	46	52
Newar, Nepal	67	52
Kathmandu, Nepal	77	52
North Asia		
Besermyans, Udmurtia	41	98
Mongolian, Mongolia	47	1
Volga-Turkic, Russia	2	Zaporozhchenko et al. GenBank AN. DQ656492-DQ656493
Aznakaevo, Aznakaevo	71	99
Buinsk, Buinsk	125	99
Mongoloid, Mongolia	103	100

AEG, Mongolia	39	101
PDEG, Mongolia	124	101
PDM, Mongolia	104	101
PDY, Mongolia	44	101
Mongoloid, Mongolian	46	101
Buryat, South Siberia	40	102
Tuvinian, South Siberia	36	102
Russian, north-eastern Siberia	50	103
Ukrainian, north-eastern Siberia	18	103
Altaian, South Siberia	110	104
Khakassian, South Siberia	53	104
Buryat, South Siberia	91	104
Sojot, South Siberia	30	104
Todjin, South Siberia	48	104
Tuvinian, South Siberia	90	104
Tofalar, South Siberia	58	104
Buryat, Ulan-Ude	126	105
Yakut, Yakutsk	117	105
Yakut, northeastern Siberia	191	106
Even, Russia	65	107
Koryak, Russia	35	107
Yakutian, Russia	22	107
Kets, Sulomai and Turukhansk	38	108
Ngana-sans, Dudinka	24	108
Ba, bashkir	221	109
Ch, chuvash	55	109
Er, erza-moksha	102	109
Ko, komi	138	109
Ma, mari	139	109
Ta, tatar	228	109
Ud, udmurt	102	109
TB, Southern Siberia	72	110
TV, Southern Siberia	96	110
BR, Southern Siberia	25	110
TF, Southern Siberia	46	110
EV, Southern Siberia	37	110
NG, Southern Siberia	33	110
UL, Southern Siberia	87	110
NV, Southern Siberia	56	110
UD, Southern Siberia	46	110
Mansi, Northwest Siberia	98	108
Nga, Arctic Siberians	39	111
Ind, Arctic Siberians	82	111
Kolyma, Arctic Siberians	18	111

Chv, Arctic Siberians	32	111
Chu, Arctic Siberians	182	111
Sir, Arctic Siberians	37	111
Cha, Arctic Siberians	50	111
Nau, Arctic Siberians	39	111
Ale, Arctic Siberians	36	111
Buryat, Russia	61	44
Even, Russia	35	44
Chelkan, Northern Altaians	91	112
Kumandin, Northern Altaians	52	112
Tubalar, Northern Altaians	71	112
Altai-kizhi , Southern Altaians	276	112
Barghuts, Hulun Buir Aimak ,Inner Mongolia, China	149	113
Altaian Kazakhs, Kosh-Agach district of Altai Republic	98	113
Mongolians, Ulaanbaatar, Mongolia	47	50
Kalmyks, Kalmyk Republic	110	50
Buryats, Buryat Republic	295	50
Khamnigans, Buryat Republic	99	50
Tuvinians, Tuva Republic	105	50
East Evenks, Buryat Republic	45	50
West Evenks, Krasnoyarsk	73	50
Yakuts, Sakha	36	50
Shors, Kemerovo	82	50
Khakassians, Khakassian Republic	57	50
Altaians-Kizhi, South Altai	90	50
Telenghits, South Altai	71	50
Teleuts, Kemerovo	53	50
Chukchi, Anadyr, Chukotka Autonomous Okrug	15	50
Khanty, Lower Ob-river valley	106	114
Mansi, Lower Ob-river valley	63	114
Complete sequences of C and D, North Asia	182	115
Complete sequences of North Asia rare haplogroups	55	113
Tubalar, Altai region	144	116
Evens, northeastern Siberia	87	116
Ulchi, Russian Far East	160	116
Central Asia		
Bukharan Arabs, Central Asia	20	117
Crimean Tatars, Central Asia	20	117
Dungans, Central Asia	16	117

Iranians, Central Asia	20	117
Karakalpaks, Central Asia	20	117
Kazaks, Central Asia	20	117
Khoremian Uzbeks, Central Asia	20	117
Kyrgyz, Central Asia	20	117
Tajiks, Central Asia	20	117
Turkmen, Central Asia	20	117
Uighurs, Central Asia	16	117
Uzbeks, Central Asia	20	117
Kazakh, Kazakhstan	55	117
Kirghiz, Kirghizstan	47	117
Kirghiz, Kirghizstan	48	117
Uighur, Kazakhstan	55	117
Kurdish, Turkmenistan	32	71
Shugnan, Tajikistan	44	71
Turkmen, Turkmenistan	41	71
Uzbek, Uzbekistan	42	71
FER, Uzbekistan	53	118
KAR, Uzbekistan	46	118
KAZ, Kazakhstan	256	118
KYR, Kyrgyzstan	249	118
QAS, Uzbekistan	75	118
RUS, Russia	151	118
TAJ, Tajikistan	244	118
TAS, Uzbekistan	55	118
TUR, Turkmenistan	249	118
XOR, Uzbekistan	99	118
KAR, Uzbekistan	55	119
KAZ, Kazakhstan	50	119
OTU, Uzbekistan/Turkmenistan border	53	119
TUR, Uzbekistan/Turkmenistan border	51	119
UZB, Karakalpakia	40	119
Kazakhstan, Kazakhstan	27	120
Tajiks, Tajikistan	44	50
West Asia		
Kurdish Muslims, Baghdad, Iraq	15	121
Assyrian Christians, Baghdad, Iraq	22	121
Arab Muslims, Baghdad, Iraq	128	121
Mandaean Arabs, Baghdad, Iraq	17	121
Kuwaiti, Kuwait	381	122
Yemeni, Yemen	50	123
Bedouin, Near East	58	124
Cherkes, Near East	8	124
Druze, Near East	77	124

Palestinian, Near East	110	124
Turkish, Turkey	50	71
BAL, Georgia	20	71
CHE, Georgia	18	71
GEO, Georgia	20	71
Gilaki, Iran	37	71
Kurdish, Iran	20	71
Lur, Iran	17	71
Mazandarian, Iran	21	71
Persian, Iran	42	71
Turkish, Azerbaijan	40	71
AFG, Afghanistan	98	118
Persians, eastern Iran	82	50
Kurds, northwestern Iran	25	50

References

1. Jin H-J, Tyler-Smith C, Kim W. The peopling of Korea revealed by analyses of mitochondrial DNA and Y-chromosomal markers. *PLoS ONE* **4**, e4210 (2009).
2. Irwin JA, *et al.* Investigation of heteroplasmy in the human mitochondrial DNA control region: a synthesis of observations from more than 5000 global population samples. *J. Mol. Evol.* **68**, 516-527 (2009).
3. Xu Z, *et al.* Mitochondrial DNA evidence for a diversified origin of workers building mausoleum for first emperor of China. . *PLoS ONE* **3**, e3275 (2008).
4. Koji Lum J, Cann RL. mtDNA lineage analyses: origins and migrations of Micronesians and Polynesians. *Am. J. Phys. Anthropol.* **113**, 151-168 (2000).
5. Zhao M, *et al.* Mitochondrial genome evidence reveals successful Late Paleolithic settlement on the Tibetan Plateau. *Proc. Natl. Acad. Sci.* **106**, 21230-21235 (2009).
6. Qin Z, *et al.* A mitochondrial revelation of early human migrations to the Tibetan Plateau before and after the last glacial maximum. *Am. J. Phys. Anthropol.* **143**, 555-569 (2010).
7. Yao Y-G, Nie L, Harpending H, Fu Y-X, Yuan Z-G, Zhang Y-P. Genetic relationship of Chinese ethnic populations revealed by mtDNA sequence diversity. *Am. J. Phys. Anthropol.* **118**, 63-76 (2002).
8. Wen B, *et al.* Analyses of genetic structure of Tibeto-Burman populations reveals sex-biased admixture in southern Tibeto-Burmans. *Am. J. Hum. Genet.***74**, 856-865 (2004).
9. Yao Y-G, Zhang Y-P. Phylogeographic analysis of mtDNA variation in four ethnic populations from Yunnan Province: new data and a reappraisal. *J. Hum. Genet.* **47**, 311-318 (2002).
10. Qian YP, *et al.* Mitochondrial DNA polymorphisms in Yunnan nationalities in China. *J. Hum. Genet.* **46**, 211-220 (2001).
11. Yao Y-G, Kong Q-P, Wang C-Y, Zhu C-L, Zhang Y-P. Different matrilineal contributions to genetic structure of ethnic groups in the Silk Road region in China. *Mol. Biol. Evol.* **21**, 2265-2280 (2004).
12. Liu X, Li S. Polymorphism of mitochondrial DNA D-loop region in Chinese Baoan ethnic group. *Journal of the Fourth Military Medical University* **20**, 004 (2003).
13. Liu X, Chen T, Li S. Sequence polymorphism of human mitochondrial DNA control region in Chinese Dongxiang unrelated individuals. *Journal of Medical Colleges of PLA* **19**, (2004).

14. Liu X, Li S. Study on polymorphisms of mitochondrial DNA D-loop region in the Sala population in China. *J Xi'an Jiaotong Univ* **25**, (2004).
15. Wang W, Wise C, Baric T, Black ML, Bittles AH. The origins and genetic structure of three co-resident Chinese Muslim populations: the Salar, Bo'an and Dongxiang. *Hum. Genet.* **113**, 244-252 (2003).
16. Liu X, Li S. Mitochondrial DNA Polymorphism in control region from Chinese Yugu population. *J Xi'an Jiaotong Univ* **16**, (2004).
17. Li C, *et al.* Evidence that a West-East admixed population lived in the Tarim Basin as early as the early Bronze Age. *BMC Biol.* **8**, 15 (2010).
18. Xie C-Z, *et al.* Quantification Polymerase Chain Reaction Designs to Analyze the Ancient Deoxyribonucleic Acid of Xiaohe Cemetery, Xinjiang. *Chinese Journal of Analytical Chemistry* **35**, 5 (2007).
19. Cui Y, Li C, Gao S, Xie C, Zhou H. Early Eurasian migration traces in the Tarim Basin revealed by mtDNA polymorphisms. *Am. J. Phys. Anthropol.* **142**, 558-564 (2010).
20. Cui Y, *et al.* 新疆塔里木盆地早期铁器时代人群的母系遗传结构分析. *Chinese Science Bulletin* **54**, 2912-2919 (2009).
21. He H, *et al.* Study on mtDNA polymorphism of ancient human bone from Hami of Xinjiang, Chian 3200BP. *Acta Anthropologica Sinica* **22**, (2003).
22. Kong Q-P, *et al.* Mitochondrial DNA sequence polymorphisms of five ethnic populations from northern China. *Hum. Genet.* **113**, 391-405 (2003).
23. Zhang YJ, Xu QS, Zheng ZJ, Lin HY, Lee JB. Haplotype diversity in mitochondrial DNA hypervariable region I, II and III in northeast China Han. *Forensic Sci Int* **149**, 267-269 (2005).
24. Wen B, *et al.* Genetic evidence supports demic diffusion of Han culture. *Nature* **431**, 302-305 (2004).
25. Yao Y-G, Kong Q-P, Bandelt H-J, Kivisild T, Zhang Y-P. Phylogeographic differentiation of mitochondrial DNA in Han Chinese. *Am. J. Hum. Genet.***70**, 635-651 (2002).
26. Yao Y-G, Kong Q-P, Man X-Y, Bandelt H-J, Zhang Y-P. Reconstructing the evolutionary history of China: a caveat about inferences drawn from ancient DNA. *Mol. Biol. Evol.* **20**, 214-219 (2003).
27. Tajima A, Sun C-S, Pan I-H, Ishida T, Saitou N, Horai S. Mitochondrial DNA polymorphisms in nine aboriginal groups of Taiwan: implications for the population history of aboriginal Taiwanese. *Hum. Genet.* **113**, 24-33 (2003).
28. Tsai L, Lin C, Lee J, Chang J, Linacre A, Goodwin W. Sequence polymorphism of mitochondrial D-loop DNA in the Taiwanese Han population. *Forensic. Sci. Int.* **119**, 239-247 (2001).
29. Kivisild T, *et al.* The emerging limbs and twigs of the East Asian mtDNA tree. *Mol. Biol. Evol.* **19**, 1737-1751 (2002).
30. Nishimaki Y, Sato K, Fang L, Ma M, Hasekura H, Boettcher B. Sequence polymorphism in the mtDNA HV1 region in Japanese and Chinese. *Leg. Med.* **1**, 238-249 (1999).
31. Oota H, *et al.* Extreme mtDNA homogeneity in continental Asian populations. *Am. J. Phys. Anthropol.* **118**, 146-153 (2002).
32. Wen B, *et al.* Genetic structure of Hmong-Mien speaking populations in East Asia as revealed by mtDNA lineages. *Mol. Biol. Evol.* **22**, 725-734 (2005).
33. Koyama H, *et al.* Mitochondrial sequence haplotype in the Japanese population. *Forensic. Sci. Int.* **125**, 93-96 (2002).
34. Imaizumi K, Parsons TJ, Yoshino M, Holland M. A new database of mitochondrial DNA

hypervariable regions I and II sequences from 162 Japanese individuals. *Int. J. Legal. Med.* **116**, 68-73 (2002).

35. Maruyama S, Minaguchi K, Saitou N. Sequence polymorphisms of the mitochondrial DNA control region and phylogenetic analysis of mtDNA lineages in the Japanese population. *Int. J. Legal. Med.* **117**, 218-225 (2003).
36. Nagai A, Nakamura I, Shiraki F, Bunai Y, Ohya I. Sequence polymorphism of mitochondrial DNA in Japanese individuals from Gifu Prefecture. *Leg. Med.* **5**, S210-S213 (2003).
37. Seo Y, Stradmann-Bellinghausen B, Rittner C, Takahama K, Schneider PM. Sequence polymorphism of mitochondrial DNA control region in Japanese. *Forensic. Sci. Int.* **97**, 155-164 (1998).
38. Mabuchi T, Susukida R, Kido A, Oya M. Typing the 1.1 kb control region of human mitochondrial DNA in Japanese individuals. *J .Forensic. Sci.* **52**, 355-363 (2007).
39. Horai S, *et al.* mtDNA polymorphism in East Asian Populations, with special reference to the peopling of Japan. *Am. J. Hum. Genet.***59**, 579 (1996).
40. Chen F, *et al.* Analysis of mitochondrial DNA polymorphisms in Guangdong Han Chinese. *Forensic. Sci. Int. Genet.* **2**, 150-153 (2008).
41. Cheng B, *et al.* Genetic imprint of the Mongol: signal from phylogeographic analysis of mitochondrial DNA. *J. Hum. Genet.* **53**, 905-913 (2008).
42. Li H, *et al.* Mitochondrial DNA diversity and population differentiation in southern East Asia. *Am. J. Phys. Anthropol.* **134**, 481-488 (2007).
43. Wang WZ, *et al.* Tracing the origins of Hakka and Chaoshanese by mitochondrial DNA analysis. *Am. J. Phys. Anthropol.* **141**, 124-130 (2010).
44. Tajima A, *et al.* Genetic origins of the Ainu inferred from combined DNA analyses of maternal and paternal lineages. *J. hum. genet.* **49**, 187-193 (2004).
45. Gan R-J, *et al.* Pinghua population as an exception of Han Chinese's coherent genetic structure. *J. Hum. Genet.* **53**, 303-313 (2008).
46. Underhill P, Kivisild T. Use of Y-chromosome and mitochondrial DNA population structure in tracing human migrations. *Ann. Rev. Genet.* **41**, 539 - 564 (2007).
47. Tabbada KA, *et al.* Philippine mitochondrial DNA diversity: a populated viaduct between Taiwan and Indonesia? *Mol. Biol. Evol.* **27**, 21-31 (2010).
48. Zhang W, *et al.* A Matrilineal Genetic Legacy from the Last Glacial Maximum Confers Susceptibility to Schizophrenia in Han Chinese. *J. Genet. Genomics.* **41,** 397-407 (2014).
49. Liu J, *et al.* Deciphering the signature of selective constraints on cancerous mitochondrial genome. *Mol. Biol. Evol.* **29**, 1255-1261 (2012).
50. Derenko M, *et al.* Phylogeographic Analysis of Mitochondrial DNA in Northern Asian Populations. *Am. J. Hum. Genet.***81**, 1025-1041 (2007).
51. Ji F, *et al.* Mitochondrial DNA variant associated with Leber hereditary optic neuropathy and high-altitude Tibetans. *Proc. Natl. Acad. Sci.* **109**, 7391-7396 (2012).
52. Gayden T, *et al.* The Himalayas: Barrier and conduit for gene flow. *Am. J. Phys. Anthropol*. **151,** 169-182 (2013).
53. Lee HY, Yoo J-E, Park MJ, Chung U, Kim C-Y, Shin K-J. East Asian mtDNA haplogroup determination in Koreans: Haplogroup-level coding region SNP analysis and subhaplogroup-level control region sequence analysis. *Electrophoresis* **27**, 4408-4418 (2006).
54. Irwin JA, *et al.* Mitochondrial control region sequences from a Vietnamese population sample. *Int*

J Legal Med **122**, 257-259 (2008).

55. Summerer M, *et al.* Large-scale mitochondrial DNA analysis in Southeast Asia reveals evolutionary effects of cultural isolation in the multi-ethnic population of Myanmar. *BMC Evol. Biol.* **14**, 17 (2014).
56. Macaulay V, *et al.* Single, Rapid Coastal Settlement of Asia Revealed by Analysis of Complete Mitochondrial Genomes. *Science* **308**, 1034-1036 (2005).
57. Oota H, Settheetham-Ishida W, Tiwawech D, Ishida T, Stoneking M. Human mtDNA and Y-chromosome variation is correlated with matrilocal versus patrilocal residence. *Nat. Genet.* **29**, 20-21 (2001).
58. Peng MS, *et al.* Tracing the Austronesian footprint in Mainland Southeast Asia: a perspective from mitochondrial DNA. *Mol. Biol. Evol.* **27**, 2417-2430 (2010).
59. Zimmermann B, *et al.* Forensic and phylogeographic characterization of mtDNA lineages from northern Thailand (Chiang Mai). *Int J Legal Med* **123**, 495-501 (2009).
60. Black M, Dufall K, Wise C, Sullivan S, Bittles A. Genetic ancestries in northwest Cambodia. *Ann. Hum. Biol.* **33**, 620-627 (2006).
61. Fucharoen G, Fucharoen S, Horai S. Mitochondrial DNA polymorphisms in Thailand. *J. Hum. Genet.* **46**, 115-125 (2001).
62. Lertrit P, *et al.* Genetic history of Southeast Asian populations as revealed by ancient and modern human mitochondrial DNA analysis. *Am. J. Phys. Anthropol.* **137**, 425-440 (2008).
63. Olivieri A, *et al.* The mtDNA legacy of the Levantine early Upper Palaeolithic in Africa. *Science* **314**, 1767-1770 (2006).
64. Maruyama S, Nohira-Koike C, Minaguchi K, Nambiar P. MtDNA control region sequence polymorphisms and phylogenetic analysis of Malay population living in or around Kuala Lumpur in Malaysia. *Int. J. Legal. Med.* **124**, 165-170 (2010).
65. Wong HY, *et al.* Sequence polymorphism of the mitochondrial DNA hypervariable regions I and II in 205 Singapore Malays. *Leg. Med.* **9**, 33-37 (2007).
66. Haslindawaty ARN, Panneerchelvam S, Edinur HA, Norazmi MN, Zafarina Z. Sequence polymorphisms of mtDNA HV1, HV2, and HV3 regions in the Malay population of Peninsular Malaysia. *Int. J. Legal. Med.* **124**, 415-426 (2010).
67. Bodner M, *et al.* Southeast Asian diversity: first insights into the complex mtDNA structure of Laos. *BMC Evol. Biol.* **11**, 49 (2011).
68. Roychoudhury S, *et al.* Genomic structures and population histories of linguistically distinct tribal groups of India. *Hum. Genet.* **109**, 339-350 (2001).
69. Cordaux R, Saha N, Bentley GR, Aunger R, Sirajuddin S, Stoneking M. Mitochondrial DNA analysis reveals diverse histories of tribal populations from India. *Eur J. Hum. Genet.* **11**, 253-264 (2003).
70. Reddy BM, *et al.* Austro-Asiatic tribes of Northeast India provide hitherto missing genetic link between South and Southeast Asia. *PLoS ONE* **2**, e1141 (2007).
71. Quintana-Murci L, *et al.* Where west meets east: the complex mtDNA landscape of the southwest and Central Asian corridor. *Am. J. Hum. Genet.***74**, 827-845 (2004).
72. Metspalu M, *et al.* Most of the extant mtDNA boundaries in south and southwest Asia were likely shaped during the initial settlement of Eurasia by anatomically modern humans. *BMC Genet.* **5**, 26 (2004).
73. Sharma S, Saha A, Rai E, Bhat A, Bamezai R. Human mtDNA hypervariable regions, HVR I and

II, hint at deep common maternal founder and subsequent maternal gene flow in Indian population groups. *J. Hum. Genet.* **50**, 497-506 (2005).

74. Mountain JL, *et al.* Demographic history of India and mtDNA-sequence diversity. *Am. J. Hum. Genet.***56**, 979-992 (1995).
75. Thangaraj K, *et al.* Different population histories of the Mundari-and Mon-Khmer-speaking Austro-Asiatic tribes inferred from the mtDNA 9-bp deletion/insertion polymorphism in Indian populations. *Hum. Genet.* **116**, 507-517 (2005).
76. Barnabas S, Shouche Y, Suresh C. High‐Resolution mtDNA Studies of the Indian Population: Implications for Palaeolithic Settlement of the Indian Subcontinent. *Ann Hum. Genet.* **70**, 42-58 (2006).
77. Rajkumar R, Kashyap V. Haplotype diversity in mitochondrial DNA hypervariable regions I and II in three communities of Southern India. *Forensic. Sci. Int.* **136**, 79-82 (2003).
78. Rajkumar R, Kashyap V. Mitochondrial DNA hypervariable region I and II sequence polymorphism in the Dravidian linguistic group of India. *J. Forensic. Sci.* **48**, 227 (2003).
79. Thangaraj K, Ramana GV, Singh L. Y‐chromosome and mitochondrial DNA polymorphisms in Indian populations. *Electrophoresis* **20**, 1743-1747 (1999).
80. Kivisild T, *et al.* Deep common ancestry of Indian and western-Eurasian mitochondrial DNA lineages. *Curr. Biol.* **9**, 1331-1334 (1999).
81. Quintana-Murci L, Semino O, Bandelt H-J, Passarino G, McElreavey K, Santachiara-Benerecetti AS. Genetic evidence of an early exit of Homo sapiens sapiens from Africa through eastern Africa. *Nat. Genet.* **23**, 437-441 (1999).
82. Thanseem I, *et al.* Genetic affinities among the lower castes and tribal groups of India: inference from Y chromosome and mitochondrial DNA. *BMC Genet.* **7**, 42 (2006).
83. Kumar V, *et al.* Global patterns in human mitochondrial DNA and Y-chromosome variation caused by spatial instability of the local cultural processes. *PLoS Genet.* **2**, e53 (2006).
84. Kivisild T, *et al.* The genetic heritage of the earliest settlers persists both in Indian tribal and caste populations. *Am. J. Hum. Genet.***72**, 313-332 (2003).
85. Watkins W, *et al.* Multiple origins of the mtDNA 9-bp deletion in populations of South India. *Am. J. Phys. Anthropol.* **109**, 147-158 (1999).
86. Mittal B, *et al.* Mitochondrial DNA variation and substructure among the tribal populations of Andhra Pradesh, India. *Am. J. Hum. Biol.* **20**, 683-692 (2008).
87. Gaikwad S, Kashyap V. Molecular insight into the genesis of ranked caste populations of western India based upon polymorphisms across non-recombinant and recombinant regions in genome. *Genome. Biol.* **6**, P10 (2005).
88. Roy S, Thakur C, Majumder PP. Mitochondrial DNA variation in ranked caste groups of Maharashtra (India) and its implication on genetic relationships and origins. *Ann. Hum. Biol.* **30**, 443-454 (2003).
89. Baig M, Khan A, Kulkarni K. Mitochondrial DNA diversity in tribal and caste groups of Maharashtra (India) and its implication on their genetic origins. *Ann. Hum. Genet.* **68**, 453-460 (2004).
90. Kaur I, *et al.* Genomic diversities and affinities among four endogamous groups of Punjab (India) based on autosomal and mitochondrial DNA polymorphisms. *Hum. Biol*. 819-836 (2002).
91. Banerjee J, Trivedi R, Kashyap V. Mitochondrial DNA control region sequence polymorphism in four indigenous tribes of Chotanagpur plateau, India. *Forensic Sci Int* **149**, 271-274 (2005).

92. Sahoo S, Kashyap V. Phylogeography of mitochondrial DNA and Y‐Chromosome haplogroups reveal asymmetric gene flow in populations of Eastern India. *Am. J. Phys. Anthropol.* **131**, 84-97 (2006).
93. Thangaraj K, *et al.* Genetic affinities of the Andaman Islanders, a vanishing human population. *Curr Biol* **13**, 86-93 (2003).
94. Ravi Prasad B, *et al.* Mitochondrial DNA variation in Nicobarese islanders. *Hum Biol* **73**, 715-725 (2001).
95. Wirth T, *et al.* Distinguishing human ethnic groups by means of sequences from Helicobacter pylori: lessons from Ladakh. *Proc. Natl. Acad. Sci.* **101**, 4746-4751 (2004).
96. Eaaswarkhanth M, *et al.* Traces of sub-Saharan and Middle Eastern lineages in Indian Muslim populations. *Eur J. Hum. Genet.* **18**, 354-363 (2009).
97. Fornarino S, *et al.* Mitochondrial and Y-chromosome diversity of the Tharus (Nepal): a reservoir of genetic variation. *BMC Evol Biol* **9**, 154 (2009).
98. Grosheva A, Shneider YV, Morozova IY, Zhukova O, Rychkov SY. Genetic diversity of Besermyans inferred from mitochondrial DNA polymorphism. *Russ J Genet* **49**, 1168-1174 (2013).
99. Malyarchuk B, Derenko M, Denisova G, Kravtsova O. Mitogenomic diversity in Tatars from the Volga-Ural region of Russia. *Mol. Biol. Evol.* **27**, 2220 (2010).
100. Kolman CJ, Sambuughin N, Bermingham E. Mitochondrial DNA analysis of Mongolian populations and implications for the origin of New World founders. *Genetics* **142**, 1321-1334 (1996).
101. Keyser‐Tracqui C, Crubezy E, Pamzsav H, Varga T, Ludes B. Population origins in Mongolia: genetic structure analysis of ancient and modern DNA. *Am. J. Phys. Anthropol.* **131**, 272-281 (2006).
102. Derenko MV, *et al.* Mitochondrial DNA variation in two South Siberian Aboriginal populations: implications for the genetic history of North Asia. *Hum Biol*, 945-973 (2000).
103. Malyarchuk B, Derenko M. Mitochondrial DNA variability in Russians and Ukrainians: Implication to the origin of the Eastern Slavs. *Ann. Hum. Genet.* **65**, 63-78 (2001).
104. Derenko M, *et al.* Diversity of mitochondrial DNA lineages in South Siberia. *Ann Hum. Genet.* **67**, 391-411 (2003).
105. Pakendorf B, *et al.* Mitochondrial DNA evidence for admixed origins of central Siberian populations. *Am. J. Phys. Anthropol.* **120**, 211-224 (2003).
106. Fedorova S, Bermisheva M, Villems R, Maksimova N, Khusnutdinova E. Analysis of mitochondrial DNA haplotypes in yakut population]. *Mol Biol (Mosk)* **37**, 643 (2003).
107. Derenko M, Shields G. Diversity of mitochondrial DNA nucleotide sequences in three groups of aboriginal inhabitants of Northern Asia]. *Mol Biol (Mosk)* **31**, 784 (1997).
108. Derbeneva O, Starikovskaia E, Volod'ko N, Wallace D, Sukernik R. Mitochondrial DNA variation in Kets and Nganasans and the early peoples of Northern Eurasia. *Genetika* **38**, 1554-1560 (2002).
109. Bermisheva M, Tambets K, Villems R, Khusnutdinova E. Diversity of mitochondrial DNA haplotypes in ethnic populations of the Volga-Ural region of Russia. *Mol Biol (Mosk)* **36**, 990-1001 (2001).
110. Starikovskaya EB, *et al.* Mitochondrial DNA diversity in indigenous populations of the southern extent of Siberia, and the origins of Native American haplogroups. *Ann Hum. Genet.* **69**, 67-89 (2005).
111. Volodko NV, *et al.* Mitochondrial genome diversity in arctic Siberians, with particular reference to

the evolutionary history of Beringia and Pleistocenic peopling of the Americas. *Am. J. Hum. Genet.***82**, 1084-1100 (2008).

112. Dulik Matthew C, *et al.* Mitochondrial DNA and Y Chromosome Variation Provides Evidence for a Recent Common Ancestry between Native Americans and Indigenous Altaians. *Am. J. Hum. Genet.***90**, 229-246 (2012).
113. Derenko M, *et al.* Complete Mitochondrial DNA Analysis of Eastern Eurasian Haplogroups Rarely Found in Populations of Northern Asia and Eastern Europe. *PLoS ONE* **7**, e32179 (2012).
114. Pimenoff VN, Comas D, Palo JU, Vershubsky G, Kozlov A, Sajantila A. Northwest Siberian Khanty and Mansi in the junction of West and East Eurasian gene pools as revealed by uniparental markers. *Eur J. Hum. Genet.* **16**, 1254-1264 (2008).
115. Derenko M, *et al.* Origin and Post-Glacial Dispersal of Mitochondrial DNA Haplogroups C and D in Northern Asia. *PLoS ONE* **5**, e15214 (2010).
116. Sukernik RI, Volodko NV, Mazunin IO, Eltsov NP, Dryomov SV, Starikovskaya EB. Mitochondrial genome diversity in the tubalar, even, and ulchi: Contribution to prehistory of native siberians and their affinities to native americans. *Am. J. Phys. Anthropol.* **148**, 123-138 (2012).
117. Comas D, *et al.* Admixture, migrations, and dispersals in Central Asia: evidence from maternal DNA lineages. *Eur J. Hum. Genet.* **12**, 495-504 (2004).
118. Irwin JA, *et al.* The mtDNA composition of Uzbekistan: a microcosm of Central Asian patterns. *Int. J. Legal. Med.* **124**, 195-204 (2010).
119. Chaix R, *et al.* From social to genetic structures in central Asia. *Curr Biol* **17**, 43-48 (2007).
120. Lalueza-Fox C, *et al.* Unravelling migrations in the steppe: mitochondrial DNA sequences from ancient Central Asians. *Proc R Soc Lond B Biol Sci* **271**, 941-948 (2004).
121. Al-Zahery N, Saunier J, Ellingson K, Parson W, Parsons TJ, Irwin JA. Characterization of mitochondrial DNA control region lineages in Iraq. *Int. J. Legal. Med.* **127**, 373-375 (2013).
122. Scheible M, Alenizi M, Sturk-Andreaggi K, Coble MD, Ismael S, Irwin JA. Mitochondrial DNA control region variation in a Kuwaiti population sample. *Forensic Sci Int Genet* **5**, e112-e113 (2011).
123. Non AL, Al‐Meeri A, Raaum RL, Sanchez LF, Mulligan CJ. Mitochondrial DNA reveals distinct evolutionary histories for Jewish populations in Yemen and Ethiopia. *Am. J. Phys. Anthropol.* **144**, 1-10 (2011).
124. Behar DM, *et al.* Counting the founders: the matrilineal genetic ancestry of the Jewish Diaspora. *PLoS ONE* **3**, e2062 (2008).

Supplementary Table S8. HVS data for networks.

Sample name	HG	HVS-I (16000+)	HVS II	Some Coding-Region Polymorphisms	Location	Nation	Reference
Jarai08	M24	223	73 146 195 263 310+C	G10398A C10400T T15601C	Cambodia	Jarai	1
Jarai20	M24	223	73 146 195 263 310+C	G10398A C10400T T15601C	Cambodia	Jarai	1
Lao74	M24	223	73 146 195 263 310+C	G10398A C10400T T15601C	Cambodia	Lao	1
Burman416*	M24	223 311 519	73 146 152 195 204 263 315+C 489	15012-15749=15043 15301 15326 15601	Sagaing, Myanmar	Naga	This study
Burman420	M24	223 311 519	73 146 152 195 204 263 315+C 489	15013-15800=15043 15301 15326 15601	Sagaing, Myanmar	Naga	This study
Burman421	M24	223 311 519	73 146 152 195 204 263 6315+C 489	15011-15890=15043 15301 15326 15601	Sagaing, Myanmar	Naga	This study
Burman428	M24	223 311 519	73 146 152 195 204 263 315+C 489	15010-15780=15043 15301 15326 15601	Sagaing, Myanmar	Naga	This study
Burman429	M24	223 311 519	73 146 152 195 204 263 315+C 489	15012-15999=15043 15301 15326 15601	Sagaing, Myanmar	Naga	This study
Burman433	M24	223 311 519	73 146 152 195 204 263 315+C 489	15011-15800=15043 15301 15326 15601	Sagaing, Myanmar	Naga	This study
Burman436	M24	223 311 519	73 146 152 195 204 263 315+C 489	15412-15965=15601	Sagaing, Myanmar	Naga	This study
Burman441	M24	223 311 519	73 146 152 195 204 263 315+C 489	15011-15928=15043 15301 15326 15601	Sagaing, Myanmar	Naga	This study
Burman445	M24	223 311 519	73 146 152 195 204 263 315+C 489	15011-15725=15043 15301 15326 15601	Sagaing, Myanmar	Naga	This study
Burman471	M24	223 311 519	73 146 152 195 204 263 315+C 489	15012-15900=15043 15301 15326 15601	Sagaing , Myanmar	Naga	This study
Burman079	M24	075 223 311 519	73 146 152 195 263 309+C 489	15012-15800=15043 15301 15326 15601 15607	Sagaing , Myanmar	Burmans	This study
Burman702*	M24	075 223 311 327 519	73 146 152 195 263 315+C		Bago, Myanmar	Burmans	This study
Khmer02*	M24	223 311	73 146 152 195 263 309+C 310	G10398A C10400T G15043A	Cambodia	Khmer	1
Khmer44	M24	223 311	73 146 152 195 263 309+C	A6581G G10398A C10400T G13359A G15043A G15314A	Cambodia	Khmer	1
Phnong33	M24	223 311	73 146 152 195 263 309+C	A6581G G10398A C10400T G13359A G15043A G15314A	Cambodia	Phnong	1
Stieng26	M24	223 311	73 146 152 195 263	G10398A C10400T G15043A G15314A	Cambodia	Stieng	1
K23720	M24	086 223 519	73 146 195 263 315+C 489 522-523d 750	4524-5105=4769 5176AluI+	Naxay thong,Elay, Laos	lao loum	Our unpublished data
K24460	M24	086 223 311 519	73 146 152 195 263 315+C 489 499 522-523d	4918-5449=rCRS; 5774-6341=rCRS	Hadxay fong xiengkhuan, Laos	lao loum	Our unpublished data
K24485	M24	086 223 519	73 146 195 263 315+C 489 522-523d 750	5774-6342=rCRS	Xaysed tha Thadluangonua, Laos	lao loum	Our unpublished data
K25049	M24	223 311 519	73 146 152 195 263 309+2C 315+C 489		chanpasak, Laos	lao loum	Our unpublished data
K25287	M24	223 311 519	73 143 146 152 195 263 309+C 315+C 414 445 489		Bokea, Laos	lao sung	Our unpublished data
DaiDP3*	M24	086 223 278 519	73 146 263 315+C (489 523 524d)	+5176AluI-4831HhaI	Lancang , China	Dai	Our unpublished data
Jarai06*	M24	086 223 519	73 146 195 263 310+C	G10398A C10400T T15601C	Cambodia	Jarai	1
Burman755*	M24	086 223 278 519	73 146 195 263 315+C		Ayeyarwady, Myanmar	Burmans	Our unpublished data
TB 6*	M24	223 293C 311			Palawan	Palawan Non-Negrito	2
TB 10	M24	223 293C 311			Palawan	Palawan Non-Negrito	2
TB 12	M24	223 293C 311			Palawan	Palawan Non-Negrito	2
TB 13	M24	223 293C 311			Palawan	Palawan Non-Negrito	2
TB 14	M24	223 293C 311			Palawan	Palawan Non-Negrito	2
DJY759	M24	223 311 519	73 146 152 195 263 309+CC 315+C		Dujiangyan,Sichuan, China	Han	Our unpublished data
2390	M24	223 311 519	73 146 152 195 263 309+C 315+C		Dujiangyan,Sichuan, China	Han	Our unpublished data
Burman732*	M24	086 223 278 519	73 146 195 263 309+C 315+C	5831-6103=rCRS	Ayeyarwady, Myanmar	Burmans	This study
Burman825	M24	086 223 278 519	73 146 195 263 309+C 315+C 489 522-523d	5811-6480=rCRS	Rakhine, Myanmar	Rakhine	This study
AS01*	M24	223 311 519			Cambodian		3
Burman543	M91	129 223 287 311 327A	64 73 93 146 189 200 263 309+C 315+C 485 489	9218-9700=9509 9540 9554	Magway, Myanmar	Burmans	Our unpublished data
Burman575*	M91	129 223 287 311 327A	64 73 93 146 189 200 263 309+CC 315+C 485 489		Magway, Myanmar	Burmans	Our unpublished data
Burman593	M91	129 223 287 311 327A	64 73 93 146 189 200 263 309+C 315+C 485 489	9256-9650=9509 9540 9554	Magway, Myanmar	Burmans	Our unpublished data
Burman521	M91	129 223 311 327A	64 73 93 200 263 309+C 315+C 485 489	9278-9550=9509 9540	Magway, Myanmar	Burmans	Our unpublished data
Burman528	M91	129 223 311 327A	64 73 93 200 263 309+C 315+C 485 489	9224-9700=9509 9540 9554	Magway, Myanmar	Burmans	Our unpublished data
Burman531*	M91	129 223 311 327A	64 73 93 200 263 309+C 315+C 485 489		Magway, Myanmar	Burmans	Our unpublished data
Burman594	M91	129 223 311 327A	64 73 93 200 263 309+C 315+C 485 489	9222-936=9509 9540 9554	Magway, Myanmar	Burmans	Our unpublished data

Sample name	HG	HVS-I (16000+)	HVS II	Some Coding-Region Polymorphisms	Location	Nation	Reference
NQ-T2819	M91	154 223 287 327A 355	73 93 146 152 200 234 249d 263 282 309+C 315+C 489	3391HaeIII-	Nagqu, Tibet, China	Tibetan	4
NuCW2	M91	129 223 287 311 327A	64 73 93 189 200 263 315+C	+10397AluI-10644RsaI	Nujiang , China	Nu	Our unpublished data
LP262	M91	154 223 287 327A 355	73 93 152 200 234 249d 263 282 315+C 489 750		Yuxi, Yunnan, China	Patient	5
12C*	M91	129 223 287 311 327A	64 73 93 189 200 263 309+CC 315+C 485 489		Yunnan, China	Han	6
MMR026*	M91	223 287 327	73 93 95 200 263 315+C 489		Yangon Division, Myanmar	Bamar	7
MMR302*	M91	129 223 287 311 327A	61 62 65+T 73 93 189 200 227 263 309+C 315+C 485 489		Tanintharyi Division, Myanmar	Da Wai	7
Stieng29*	M91	069 223 287 299 327A	73 93 263 309+C 310+C	G10398A C10400T	Cambodian	Stieng	1
Stieng37*	M91	069 223 287 299 327A	73 93 263 309+C 310+C	G10398A C10400T	Cambodian	Stieng	1
Stieng38*	M91	069 223 287 299 327A	73 93 263 309+C 310+C	G10398A C10400T	Cambodian	Stieng	1
Stieng46*	M91	069 223 287 299 327A	73 93 263 309+C 310+C	G10398A C10400T	Cambodian	Stieng	1
Burman606*	M90	086 223 381 390	73 150 227 263 309+C 315+C 489		Magway, Myanmar	Burmans	This study
Burman634	M90	086 223 381 390	73 150 227 263 309+C 315+C 489	5831-6278=5910 6023 6253	Magway, Myanmar	Burmans	This study
Burman636	M90	086 223 381 390	73 150 227 263 309+C 315+C 489	5821-6204=5910 6023	Magway, Myanmar	Burmans	This study
MMR206*	M90	086 111 223 381 390	73 150 263 309+C 315+C 489		Kayin State, Myanmar	Karen	7
Deang ND3	M90	223 381 390	73 150 263 309+C 315+C 489	+12406HpaI, -4831HhaI, -663HaeIII, -3391HaeIII, +10397AluI, 5851-6468=5910 6023 6253	Yunnan, China	Deang	Our unpublished data
Burman209	M90	125 223 381 390	61A 62 73 146 152 263 309+C 315+C 489	11033-11798=11440 11719; 14071-14697=rCRS	Sagaing, Myanmar	Burmans	This study
Thai37*	M90	223 381 390	61A 62 73 146 152 263 309+CC 315+C 489		Thailand		8
thai	M90	223 381 390			Northern Thailand, Thailand		9
Burman085	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	5813-6362=5910 6023 6253	Sagaing , Myanmar	Burmans	This study
Burman086	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	5811-6363=5910 6023 6253	Sagaing , Myanmar	Burmans	This study
Burman088*	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489		Sagaing , Myanmar	Burmans	This study
Burman176	M90	223 381 390	61A 62 73 146 152		Sagaing, Myanmar	Burmans	This study
Burman189	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	5843-6290=5910 6023 6253	Sagaing, Myanmar	Burmans	This study
Burman190	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	11023-11821=11719; 14077-14694 =rCRS	Sagaing, Myanmar	Burmans	This study
Burman194	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	11025-11779=11719; 14072-14338 =rCRS	Sagaing, Myanmar	Burmans	This study
Burman195	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489		Sagaing, Myanmar	Burmans	This study
Burman205	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	5831-6270=5910 6023 6253	Sagaing, Myanmar	Burmans	This study
Burman211	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	5831-6362=5910 6023 6253	Sagaing, Myanmar	Burmans	This study
Burman220	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489 522-	5814-6280=5910 6023 6253	Sagaing, Myanmar	Burmans	This study
Burman221	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	11033-11864=11719; 14073-14694=rCRS	Sagaing, Myanmar	Burmans	This study
Burman222	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	5813-6059=5910 6023	Sagaing, Myanmar	Burmans	This study
Burman623	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	5833-6365=5910 6023 6253	Magway, Myanmar	Burmans	This study
Burman625	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489	5811-6270=5910 6023 6253	Magway, Myanmar	Burmans	This study
MMR225*	M90	223 311 381 390	61A 62 73 146 152 263 309+C 315+C 489		Myanmar	Bamar	7
MMR007*	M90	223 381 390	61A 62 73 146 152 263 309+C 315+C 489		Kachin State, Myanmar	Bamar	7
MMR187*	M90	174 223 274 320 362 381 390	73 263 309+C 315+C 489		Bago Division, Myanmar	Karen	7
Burman243	M72	129 166d 213 214 223 526	73 263 315+C 489	15422-16035=15497 15644 15820	Chin, Myanmar	Chin	This study
Burman350	M72	129 166d 214 223 526	63 73 263 315+C 489	15416-16024=15497 15644 15820	Chin, Myanmar	Chin	This study
Burman376*	M72	129 166d 214 223 526	63 73 263 315+C 489		Chin, Myanmar	Chin	This study
Burman377	M72	129 166d 214 223 526	63 64 73 263 315+C 489	15409-16024=15497 15644 15820	Chin, Myanmar	Chin	This study
NE62-2	M72	129 166d 213 214 223 342 526	73 263 315+C 489		Mizoram, India	Kuki tribe	Our unpublished data
NE64-1	M72	129 166d 213 214 223 342 526	73 263 315+C 489	15412-16055=15497 15644 15820	Mizoram, India	Kuki tribe	Our unpublished data
Burman253*	M72	129 166d 213 214 223 342 526	73 263 315+C 489		Chin, Myanmar	Chin	This study
Burman329	M72	129 166d 213 214 223 342 526	73 263 315+C 489		Chin, Myanmar	Chin	This study

Sample name	HG	HVS-I (16000+)	HVS II	Some Coding-Region Polymorphisms	Location	Nation	Reference
Kinh101*	M72	166d 209 214 223 260 311		9620-10730=10398 10400	Hanoi, Vietnam		10
(03B)0231*	M72	093 166d 214 223 249 278	73 263 315+C	10171-10659=10398 10400	Guangdong, China	Han	11
Luzon	M72	166d 172 214 223			Philippine	Luzon	12
T-16	M72	214 223 344		10398 10400 15644 15820	Chittagong hill tract, Bangladesh	Tripura	13
T-17	M72	214 223 344		10398 10400 15644 15820	Chittagong hill tract, Bangladesh	Tripura	13
Mataram	M72	124 166d 214 223			Mataram, Indonesian	Mataram	14
Khmer83	M72	124 166d 175 214 223 519	73 263 309+C	G10398A C10400T A15644G C15820T	Cambodia	Khmer	1
Phnong32	M72	124 166d 175 214 223 519	73 263 309+C	G10398A C10400T A15644G C15820T	Cambodia	Phnong	1
Phnong47	M72	124 166d 175 214 223 519	73 263 309+C	G10398A C10400T A15644G C15820T	Cambodia	Phnong	1
Phnong54	M72	124 166d 175 214 223 519	73 263 309+C 310+C	G10398A C10400T A15644G C15820T	Cambodia	Phnong	1
K24353	M72	166d 214 223	73 263 309+C 315+C 489	15427-15819=15644 15811	Xaysed tha Hongsuphab, Laos	lao loum	Our unpublished data
K25305	M72	166d 214 223	73 263 309+C 315+C 489 750		Phongsali, Laos	lao sung	Our unpublished data
PH368*	M72	166d 172 214 223	73 150 263 309+C 315+C 489		Philippines		12
MMR261*	M72	166d 214 223 311 390R 519	73 263 309+C 315+C 489		Bago Division, Myanmar	Bamar	7
MMR289	M72	166d 214 223	73 263 309+C 315+C 489		Bago Division, Myanmar	Bamar	7
Burman582*	M58	183 189 223 266 295 519	73 143 153 263 309+C 315+C 489		Magway, Myanmar	Burmans	This study
Burman720	M58	183 189 193d 223 266 295 519	73 143 153 263 309+C 315+C 489	15617-16192=15924 16183 16189	Ayeyarwady, Myanmar	Burmans	This study
Burman745	M58	183 189 223 266 295 519	73 143 153 263 309+C 315+C 489	15625-16200=15924 16183 16189	Ayeyarwady, Myanmar	Burmans	This study
Burman763	M58	183 189 223 266 295 519	73 143 153 263 309+C 3159+C 489	15616-16192=15924 16183 16189	Ayeyarwady, Myanmar	Burmans	This study
Burman052*	M58	129 183 218 223 293C 311 519	73 146 263 279 309+C 315+C 489	4520-5220=4769; 15016-15472=15043 15301 15326	Sagaing, Myanmar	Burmans	This study
NE09-3	M58	129 183 218 223 293C 311 519	73 146 263 279 315+C	4519-4970/16628-16000=4769 15901	Mizoram, India	Chakma tribe	Our unpublished data
NE20-2	M58	129 183 218 223 293C 311 519	73 146 263 279 315+C 489	4529-5210=4769 5131+T	Mizoram, India	Chakma tribe	Our unpublished data
D147	M58	129 183 218 223 293C 311 519	73 146 263 279 315+C 489	5440-5793=5460 5662	Dinajpur, Bangladesh	Bengali_D	Our unpublished data
Thoti112	M58	093 223 230 243 270 319 352			Andhra Pradesh, India	Thoti	15
WA103*	M58	223 230 243 270 319 352 519	73 152 263 309+C 315+C 331 489		Northeast India, India	Wanchoo	16
SA220	M58	086 223 230 243 270 319 352	73 263 151 195 199 204		India	Santhal	Our unpublished data
MMR127*	M58	183 189 193+2C 223 266 295 519	73 146 153 263 309+C 315+C 489		Kayin State, Myanmar	Mon	7
TH2E8	M83	129 147 203 223 319 519 527	73 146 152 182 263 315+C 356+C 489	4769 8701 8860 9540 10400 11719 12426 12705	Chiang Mai, Thailand		17
TH1D4	M83	129 223	73 146 263 315+C 356+C 489	4769 8701 8860 8997 9540 9797 10400 11719 12426 12705	Chiang Mai, Thailand		17
Ra43	M83	129 223 320	73 146 207 263 356+C		West Bengal, India	Rajbhansi	Our unpublished data
Burman484 *	M83	129 223 320	73 146 207 263 309+C 315+C 356+C 489		Sagaing, Myanmar	Naga	This study
Burman512	M83	129 223 320	73 146 263 309+CC 315+C 489	7904-8479=8143 8271 8307	Sagaing, Myanmar	Naga	This study
Burman615	M83	129 223 519 527	73 263 309+C 315+C 356+C 489	7903-8488=8059 8143 8307	Magway, Myanmar	Burmans	This study
Burman622*	M83	129 223 519 527	73 263 309+C 315+C		Magway, Myanmar	Burmans	This study
RJ230	M83	209 223 320	73 146 207 263		West Bengal, India	Rajbhansi	Our unpublished data
Ra90	M83	223 320	73 146 207 263 356+C		West Bengal, India	Rajbhansi	Our unpublished data
SW16	M83	223 320	73 146 207 263 356+C		West Bengal, India	Rajbhansi	Our unpublished data
RV34	M83	223 320	73 146 207 263 356+C		India	Rabha	Our unpublished data
RV36	M83	223 320	73 146 207 263 356+C		India	Rabha	Our unpublished data
RV51	M83	223 320	73 146 207 263 356+C		India	Rabha	Our unpublished data
Sc52	M83	223 320	73 146 207 263 356+C		India		Our unpublished data
BN56/3	M83	223 320	73 146 207 263 356+C		Bangladesh		Our unpublished data
RJ37	M83	223 320	73 152 207 263 356+C		West Bengal, India	Rajbhansi	Our unpublished data
RJ131	M83	223 320	73 146 207 263		West Bengal, India	Rajbhansi	Our unpublished data
RV16	M83	223 320			India	Rabha	Our unpublished data
Burman501 *	M83	223 320	73 146 207 263 315+C 356+C 489		Sagaing, Myanmar	Naga	This study

Sample name	HG	HVS-I (16000+)	HVS II	Some Coding-Region Polymorphisms	Location	Nation	Reference
Burman482	M83	223 320	73 146 207 263 315+C 356+C 489	7908-8442=8143 8271 8307	Sagaing, Myanmar	Naga	This study
Burman513	M83	223 320	73 146 207 263 315+C 356+C 489	7909-8607=8143 8271 8307	Sagaing, Myanmar	Naga	This study
Tripura20	M83	039T 223 309 320			Tipperah India, India	Tipperah	15
Tripura8	M83	064A 223 320			Tipperah India, India	Tipperah	15
Burman767	M83	311 319 357	73 152 263 315+C 356+C	15412-15998=15670 15941	Ayeyarwady, Myanmar	Burmans	This study
Burman775	M83	311 319 357	73 152 263 315+C 356+C 489	15426-16056=15670 15941	Ayeyarwady, Myanmar	Burmans	This study
Burman801*	M83	311 319 357	73 152 263 315+C 356+C 489		Rakhine, Myanmar	Rakhine	This study
Burman811	M83	311 319 357	73 152 263 315+C 356+C 489	15407-16052=15670 15941	Rakhine, Myanmar	Rakhine	This study
Burman818	M83	311 319 357	73 152 263 315+C 356+C 489	15426-15710=15670	Rakhine, Myanmar	Rakhine	This study
Tripura6	M83	223 298 311 319 357			Tipperah India, India	Tipperah	15
ME13	M83	086 129 223 311 319	73 263 356+C		India	Mech	Our unpublished data
ME10	M83	086 129 223 311 319	73 263 356+C		India	Mech	Our unpublished data
ME16	M83	086 129 223 311 319	73 263 356+C		India	Mech	Our unpublished data
ME7	M83	086 129 223 311 319	73 263 356+C		India	Mech	Our unpublished data
BO11/2	M83	086 129 223 311 319	73 263 356+C		Assam northeast India, India	Bodo	Our unpublished data
BO13/1	M83	086 129 223 311 319	73 263 356+C		Assam northeast India, India	Bodo	Our unpublished data
BO15/1	M83	086 129 223 311 319	73 263 356+C		Assam northeast India, India	Bodo	Our unpublished data
BO19/2	M83	086 129 223 311 319	73 263 356+C		Assam northeast India, India	Bodo	Our unpublished data
BO2/2	M83	086 129 223 311 319	73 263 356+C		Assam northeast India, India	Bodo	Our unpublished data
BO33/2	M83	086 129 223 311 319	73 263 356+C		Assam northeast India, India	Bodo	Our unpublished data
MMR211*	M83	223 163 362			Kayin State, Myanmar	Bamar	7
Burman681*	M45	223 519	73 146 152 263 309+C 315+C 489		Bago , Myanmar	Burmans	This study
AchangKU4*	M45	093 193 223 519	73 146 152 263 309+C 315+C 489	+12406HpaI-4831HhaI -3391HaeIII+10397AluI	Yunnan, China	Achang	Our unpublished data
JingpoAE1	M45	193 223 519	73 146 152 263 309+C 315+C	+12406HpaI-663HaeIII+10397AluI	Yunnan, China	Jingpo	Our unpublished data
JingpoAN2*	M45	193 223 519	73 146 152 263 309+C 315+C	-10397AluI	Yunnan, China	Jingpo	Our unpublished data
JingpoCN1*	M45	093 193 223 519	73 146 152 263 309+CC 315+C	+12406HpaI-3391HaeIII+10397AluI	Yunnan, China	Jingpo	Our unpublished data
Java	M45	086 129 209 223 237			Java	Javanese	14
SU59	M45	145 192 223 300 316	73 146 263 489	8701-9180-10398-10400-12705-15043-15301-15326	North India	Sunni Muslim	18
Nepalese075	M45	223 266 357	73 189 195 263 309+C 315+C		Kathmandu, Nepal		Our unpublished data
LP268	M45	183C 189 193+C 223 300 519	73 143 146 152 263 315+C 489 750		Yuxi, Yunnan, China	Patient	5
Burman198	M45	223 519	73 146 152 153 234 263 309+C 315+C 489	1803-2369=rCRS; 2432-4962=2706 3504 3669 3808 4734 4769; 5309-5928=rCRS; 11023-11797=11719; 14075-14701=rCRS	Sagaing, Myanmar	Burmans	Our unpublished data
SC41*	M45	145 150 182C 183C 189 223 519			China		19
HK83*	M45	183C 189 193+C 223 300 519			India		16
HK93*	M45	154 183C 189 223 300 519			India		16
KK35*	M45	178A 183C 189 223 300 519			India		16
KK42*	M45	178A 182C 183C 189 223 300 519			India		16
MN6*	M45	179 183C 189 223 300 519			India		16
MN7*	M45	179 183C 189 223 266 300 519			India		16
MN101*	M45	183C 189 223 300 519			India		16
MN72*	M45	182C 183C 189 223 300 519			India		16
HND8913(Tor463	M45	129 189 192 223 300 362 519			India		20
Tu65*	M45	179 183C 189 223 300 519			Qinghai, China	Tu	21
TH2F6	M55	111 223 243 274 311 362 381C	63 64 66 73 263 309+2C 315+C 489	4491 10400	Chiang Mai, Thailand		17
Burman386*	M55	136 189 217 223 319 381	73 94 173 204 263 315+C 482 489 522-523d	9230-9728=9477 9540	Chin, Myanmar	Chin	Our unpublished data
Naga29	M55	136 217 223 319 381			Nagaland India, India	Naga	15

Sample name	HG	HVS-I (16000+)	HVS II	Some Coding-Region Polymorphisms	Location	Nation	Reference
Mal-113	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489		Kuala Lumpur Malaysia, Malaysia	Mal	22
Burman146	M55	136 217 223 319 381	73 94 173 204 263 315+C 469+A 482 489	9243-9539=9447	Chin, Myanmar	Chin	This study
Burman164	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489	9250-9551=9447 9540	Chin, Myanmar	Chin	This study
Burman172	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489	9217-9660=9447 9540	Chin, Myanmar	Chin	This study
Burman296	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489	9240-9731=9447 9540	Chin, Myanmar	Chin	This study
Burman346*	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489 522-523d		Chin, Myanmar	Chin	This study
Burman393	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489 522-523d	9228-9592=9447 9540	Chin, Myanmar	Chin	This study
Burman398	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489 522-523d	9241-9765=9447 9540	Chin, Myanmar	Chin	This study
Burman644	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489	9228-9673=9447 9540	Magway, Myanmar	Chin	This study
NE07-1	M55	136 217 223 319 381	73 94 173 204 263 309+C 315+C		Mizoram, India	Chakma tribe	Our unpublished data
NE19-2	M55	136 217 223 319 381	73 94 173 204 263 315+C 482 489		Mizoram, India	Chakma tribe	Our unpublished data
NE47-3	M55	136 217 223 319 381	73 94 173 204 263 315+C	3312-3680=3397 3540	Mizoram, India	Ralt tribe	Our unpublished data
NE49-1	M55	136 217 223 319 381	73 94 173 204 263 309+C 315+C 482 489		Mizoram, India	Ralt tribe	Our unpublished data
Melayu*	M55	136 217 223 319 381			Sumatrans Malays	Melayu	23
Burman507	M55	148 217 223 319 381 519	73 94 173 204 263 309+C 315+C 482 489	9223-9650=9447 9540	Sagaing, Myanmar	Naga	This study
Burman504*	M55	148 217 223 319 381 519	73 94 173 204 263 309+C 315+C 482 489		Sagaing, Myanmar	Naga	This study
LisuDI1*	M55	172 217 223 291 319 381	73 94 173 263 315+C 373 482 489		Dehong , China	Lisu	Our unpublished data
LisuDL2	M55	172 217 223 291 319 381	73 94 173 263 315+C 373 482 489		Dehong , China	Lisu	Our unpublished data
LisuDY2	M55	172 217 223 291 319 381	73 94 173 263 315+C 373 482 489		Dehong , China	Lisu	Our unpublished data
Lisu	M55	172 217 223 319 381		16024–16383	Chiang Rai, Thailand		24
Lisu	M55	172 217 223 319 381		16024–16383	Chiang Rai, Thailand		24
Lisu	M55	172 217 223 319 381		16024–16383	Mae Hong Son, Thailand		24
Lisu	M55	172 217 223 319 381		16024–16383	Mae Hong Son, Thailand		24
Lisu	M55	172 217 223 319 381		16024–16383	Mae Hong Son, Thailand		24
Deang OT3*	M55	172 217 223 319 381	73 94 173 263 315+C 373 482 489	8247-9235=8701 8860 -10397AluI	Dehong , China	Deang	Our unpublished data
LisuDU1*	M55	172 217 223 319 381	73 94 173 263 315+C 373 482 489		Dehong , China	Lisu	Our unpublished data
TH2A10	M55	217 223 319 381C 519	73 94 173 204 263 309+2C 315+C 455+T 482 489	4491 10400	Chiang Mai, Thailand		17
TH2H10	M55	217 223 319 381C 519	73 94 173 204 263 309+2C315+C 482 489	4491 10400	Chiang Mai, Thailand		17
GX-Jing120	M55	217 223 319 365 381	73 94 182 263 309+CC 315+C	12406HincII+ 13262AluI- 14465AccI-	Guangxi, China	Jing	Our unpublished data
Mussur	M55	217 223 319 381			Chiang Mai, Thailand		25
Mussur	M55	217 223 319 381			Chiang Mai, Thailand	Mussur	25
Mon*	M55	136 217 223 319 381			Rangoon, Myanmar	Mon	Familytree DNA
Burman419*	M55	217 223 319 381 519	73 94 173 204 263 315+C 482 489	9241-9570=9447 9540	Sagaing, Myanmar	Naga	This study
Burman432	M55	217 223 319 381 519	73 94 173 204 263 315+C 482 489	9223-9660=9447 9540	Sagaing, Myanmar	Naga	This study
JingpoAS1*	M55	217 223 319 381 519	73 94 173 204 263 309+C 315+C	+12406HpaI-663HaeIII+10397AluI	Dehong , China	Jingpo	Our unpublished data
JingpoSB1	M55	217 223 319 381 519	73 94 173 204 263 309+C 315+C	+12406HpaI-663HaeIII-3391HaeIII+10397AluI	Dehong , China	Jingpo	Our unpublished data
Burman459*	M54	188 192 223 304 311 519	73 146 263 315+C 489		Sagaing , Myanmar	Naga	This study
RV49	M54	188 192 223 304 311		12007	India	Rabha	Our unpublished data
Thai329*	M54	093 188 189 192 223 304 519	73 263 315+C 489		Thailand		8
XEB012*	M54	145 188N 189N 192N 223 293 304 519	73 263 489		Tibet, China		26
XEB042*	M54	145 188N 189N 192N 223 293 304 519	73 263 489		Tibet, China		26
Tam24	M54	129 145 187 188 192 230 278 293 304	73 146 152 195 247 263 309+C 315+C		Nepal	TB	27
Tam6	M54	129 145 187 188 192 230 278 293 304	73 146 152 195 247 263 309+C 315+C		Nepal	TB	27
Burman716	M54	145 172 188d 192+T 223 293 304 318	73 263 315+C 489		Bago , Myanmar	Burmans	This study
Bai01-05	M54	188 189 192 223 239 304			Yunnan, China	Bai	28
YXLPCT375	M54	188 189 192 223 239 304 519	73 263 309+C 315+C 489 523-524d 750		Yunnan, China	Han	5
H-Yunnan26	M54	188 189 192 223 304			Yunnan, China	Han	29
LP011*	M54	188 189 192 223 304 324 519	73 263 309+CC 315+C 489 750		Yunnan, China	Han	5

Sample name	HG	HVS-I (16000+)	HVS II	Some Coding-Region Polymorphisms	Location	Nation	Reference
LP080*	M54	188 189 192 223 304 519	73 262 263 309+C 315+C 489 750		Yunnan, China	Han	5
LP482	M54	188 189 192 223 304 519	73 263 309+C 315+C 489 750		Yunnan, China	Han	5
YXLPCT187*	M54	188 189 192 223 304 519	73 263 309+C 315+C 489 750		Yunnan, China	Han	5
YXLPCT598*	M54	188 189 192 223 304 519	73 263 309+CC 315+C 489 750		Yunnan, China	Han	5
YXLPCT620	M54	188 189 192 223 304 519	73 263 309+C 315+C 489 750		Yunnan, China	Han	5
LP366*	M54	188 189 192 223 304 519	73 263 309+CC 315+C 489 750		Yunnan, China	Han	5
LP533*	M54	188 189 192 223 304 519	73 180 263 309+CC 315+C 489 750		Yunnan, China	Han	5
YUN-HAN-268	M54	188d 192+C 223 304 519	73 180 263 309+CC 315+C		Yunnan, China	Han	Our unpublished data
YUN-HAN-050	M54	188d 192+T 223 304 519	73 263 309+C 315+C		Yunnan, China	Han	Our unpublished data
YXLPCT770*	M54	188 189 192 223 519	73 207 263 291+A 309+C 315+C 489 750		Yunnan, China	Han	5
LisuBD1*	M84	223 258C 261 262+C 272 311 519	73 150 152 185 263 279 309+C 315+C 489	+5176AluI-4831HhaI-9820HinfI-3391HaeIII+10397AluI	Yunnan, China	Lisu	Our unpublished data
LisuBF2	M84	223 258C 261 262+C 272 311 519	73 150 152 185R 263 279 309+C 315+C 489	+5176AluI-4831HhaI +9820HinfI-3391HaeIII+10397AluI	Yunnan, China	Lisu	Our unpublished data
LisuBL1*	M84	223 258C 261 262+C 272 311 519	73 150 152 185 263 279 309+C 315+C 489	+5176AluI-4831HhaI -9820HinfI-3391HaeIII+10397AluI	Yunnan, China	Lisu	Our unpublished data
LisuBM1	M84	223 258C 262+C 272 311 519	73 150 152 185 263 279 309+C 315+C 489	+5176AluI-4831HhaI -9820HinfI-3391HaeIII+10397AluI	Yunnan, China	Lisu	Our unpublished data
Burman233*	M84	223 258C 262+C 272 519	73 185 189 263 315+C 489		Chin, Myanmar	Chin	This study
Naga16	M84	223 258C 272			Nagaland India, India	Naga	15
Naga34	M84	223 258C 272			Nagaland India, India	Naga	15
Naga58	M84	223 258C 272			Nagaland India, India	Naga	15
Burman092*	M84	223 258C 272 519	73 185 263 309+C 315+C 489	14079-14596=14110	Sagaing , Myanmar	Burmans	This study
Burman094	M84	223 258C 272 519	73 185 263 309+C 315+C	14076-14604=14110	Sagaing , Myanmar	Burmans	This study
Burman171*	M84	223 258C 272 519	73 185 263 315+C 456 489 522-523d	14079-14595=14110	Chin, Myanmar	Chin	This study
NE48-2	M84	223 258C 272 519	73 185 189 263 315+C 489	4561-5074=4769 4907	Mizoram, India	Ralt tribe	Our unpublished data
NE49-4	M84	223 258C 272 519	73 185 189 263 315+C 489		Mizoram, India	Ralt tribe	Our unpublished data
Naga3	M84	223 258C 272 295			Nagaland India, India	Naga	15
JingpoSC1*	M84	223 258C 272 311 519	73 150 152 185 263 279 315+C	+5176AluI-4831HhaI	Dehong , China	Jingpo	Our unpublished data
NE19-3	M84	093 223 258d 263 272 519	73 185 263 309+C 315+C	4508-5074=4769 4907	Mizoram, India	Chakma tribe	Our unpublished data
Burman131*	M84	093 223 258d 272 519	73 185 188 195 263 315+C		Chin, Myanmar	Chin	This study
Burman168	M84	093 223 258d 272 519	73 185 188 195 263 315+C 489	1592-1929=1719 1809	Chin, Myanmar	Chin	This study
Burman250*	M84	093 223 258d 272 519	73 185 263 315+C 489		Chin, Myanmar	Chin	This study
Burman366	M84	093 223 258d 272 519	73 185 263 315+C 489	1532-1882=1719 1809	Chin, Myanmar	Chin	This study
Burman405	M84	093 223 258d 272 519	73 185 263 315+C 489	1518-2018=1719 1809	Chin, Myanmar	Chin	This study
Burman649	M84	093 223 258d 272 519	73 185 188 195 263 315+C 489	1532-1871=1719 1809	Magway, Myanmar	Chin	This study
NE22-1	M84	093 223 258d 272 519	73 185 263 309+C 315+C 489	4564-5074=4769 4907	Mizoram, India	Chakma tribe	Our unpublished data
Burman592*	M84	129 223 258d 272 519	73 185 195 263 315+C 489	1513-2000=1719 1809	Magway, Myanmar	Burmans	This study
Burman652	M84	183d 223 224 258d 272 519	73 146 185 263 309+C 315+C 489	1502-2000=1719	Bago, Myanmar	Burmans	This study
Burman012*	M84	183d 223 224 258d 272 519	73 146 185 263 309+C 315+C		Magway, Myanmar	Rakhine	This study
Burman645*	M84	193 223 258d 272 519	73 185 263 315+C 489	1530-1860=1719 1809	Magway, Myanmar	Chin	This study
Burman170*	M84	223 247 258d 272 519	73 185 263 315+C 456 489 522-523d	1626-1962=rCRS	Chin, Myanmar	Chin	This study
NE02-1	M84	223 258d 272 362 519	73 185 263 315+C	4702-5074=4769 4907	Mizoram, India	Chakma tribe	Our unpublished data
NE14-2	M84	223 258d 272 362 519	73 185 263 315+C 489	4523-5251/15628-16000=4769 4907	Mizoram, India	Chakma tribe	Our unpublished data
NE24-2	M84	223 258d 272 362 519	73 185 263 315+C 489	4554-5074=4769 4907	Mizoram, India	Chakma tribe	Our unpublished data
NE40-3	M84	223 258d 272 362 519	73 185 263 315+C 489	4623-5074=4769 4907	Mizoram, India	Ralt tribe	Our unpublished data
NE09-4	M84	223 258d 272 519	73 185 263 315+C	4520-5285/15628-16000=4769 4907 5021	Mizoram, India	Chakma tribe	Our unpublished data
Burman196	M84	223 258d 272 519	73 185 263 309+C 315+C	14077-14705=14110	Sagaing, Myanmar	Chin	This study
Burman125	M84	223 258d 272 519	73 185 263 315+C 489	11033-11817=11191 11719	Chin, Myanmar	Chin	This study

Sample name	HG	HVS-I (16000+)	HVS II	Some Coding-Region Polymorphisms	Location	Nation	Reference
Burman136	M84	223 258d 272 519	73 185 263 315+C 489	1529-1839=1719	Chin, Myanmar	Chin	This study
Burman138	M84	223 258d 272 519	73 185 263 315+C 489	1634-1762=1719	Chin, Myanmar	Chin	This study
Burman139	M84	223 258d 272 519	73 185 263 315+C 489	1703-1731=1719	Chin, Myanmar	Chin	This study
Burman150	M84	223 258d 272 519	73 185 263 315+C 489	1502-2000=1719 1809	Chin, Myanmar	Chin	This study
Burman151	M84	223 258d 272 519	73 185 263 315+C	1513-1900=1719 1809	Chin, Myanmar	Chin	This study
Burman157	M84	223 258d 272 519	73 185 263 315+C	1624-1764=1719	Chin, Myanmar	Chin	This study
Burman158	M84	223 258d 272 519	73 185 263 315+C	1690-1856=1719 1809	Chin, Myanmar	Chin	This study
Burman159	M84	223 258d 272 519	73 185 263 315+C 489		Chin, Myanmar	Chin	This study
Burman165	M84	223 258d 272 519	73 185 263 315+C 489	1624-1936=1719 1809	Chin, Myanmar	Chin	This study
Burman166	M84	223 258d 272 519	73 185 263 315+C	1563-1897=1719 1809	Chin, Myanmar	Chin	This study
Burman235*	M84	223 258d 272 519	73 185 189 199 263 315+C 489	1660-1968=1719 1809	Chin, Myanmar	Chin	This study
Burman342	M84	223 258d 272 519	73 185 263 315+C 489	1538-1892=1719 1809	Chin, Myanmar	Chin	This study
Burman640	M84	223 258d 272 519	73 185 263 315+C 489		Magway, Myanmar	Chin	This study
Burman641	M84	223 258d 272 519	73 185 263 315+C 489	1516-1881=1719 1809	Magway, Myanmar	Chin	This study
NE20-1	M84	223 258d 272 519	73 185 263 315+C 489	4743-5074=4769 4907	Mizoram, India	Chakma tribe	Our unpublished data
NE35-1	M84	223 258d 272 519	73 185 239 263 315+C 489	4686-5074=4769 4907	Mizoram, India	Ralt tribe	Our unpublished data
NE42-2	M84	223 258d 272 519	73 185 263 315+C 489	4670-5074=4769 4907	Mizoram, India	Ralt tribe	Our unpublished data
NE43-1	M84	223 258d 272 519	73 185 263 309+C 315+C	4500-5074=4769 4907	Mizoram, India	Ralt tribe	Our unpublished data
NE55-4	M84	223 258d 272 519	73 185 263 315+C 489		Mizoram, India	Ralt tribe	Our unpublished data
NE56-1	M84	223 258d 272 519	73 185 189 263 315+C 489	4675-5074=4769 4907	Mizoram, India	Kuki tribe	Our unpublished data
NE62-3	M84	223 258d 272 519	73 185 189 263 315+C 489 563+A 573+C	4700-5081=4769 4907	Mizoram, India	Kuki tribe	Our unpublished data
NE64-2	M84	223 258d 272 519	73 185 263 315+C 489		Mizoram, India	Kuki tribe	Our unpublished data
MMR144	M84	223 258d 272 519	73 150 185 263 315+C 489		Mon State, Myanmar	Bamar	7
Burman515	M63	223 399 488 497 519	73 214 263 309+C 315+C 489	11756-12313=12007 12239	Magway, Myanmar	Burmans	This study
Burman516	M63	223 399 488 497 519	73 214 263 309+C 315+C 489	11756-12268=12007 12239	Magway, Myanmar	Burmans	This study
Burman534*	M63	223 399 488 497 519	73 214 263 309+C 315+C 489		Magway, Myanmar	Burmans	This study
Burman601	M63	223 399 488 497 519	73 214 263 309+C 315+C 489	11726-12246=12007 12236	Magway, Myanmar	Burmans	This study
A196	M63	126 223 318T 488 497	73 214 263		Uttar Pradesh, India	Bhargava	Our unpublished data
BN13/2	M63	488 497	73 214 263		Bangladesh		Our unpublished data
Bi32*	M63	223 488 497 519 527			Madhya Pradesh, India		30
MA60*	M63	172 192 223 248 519			India		16
MA110*	M63	172 192 223 519			India		16
MA78*	M63	172 192 223 248 519			India		16
MA79*	M63	172 192 223 248 519			India		16
MA84*	M63	172 192 223 248 519			India		16
MA106*	M63	172 192 223 248 519			India		16

Note: Suffixe "*" means the mtDNA of the sample has been completely sequenced.

References for Table S8

1. Zhang, X. M. *et al*. Analysis of mitochondrial genome diversity identifies new and ancient maternal lineages in Cambodian aborigines. Nat. Commun. **4,** (2013).

2. Scholes, C. *et al*. Genetic Diversity and Evidence for Population Admixture in Batak Negritos from Palawan. Am. J. Phys. Anthropol. **146,** 62-72 (2011).

3. Kivisild, T. *et al*. The Role of Selection in the Evolution of Human Mitochondrial Genomes. Genetics **172,** 373-387 (2006).

4. Zhao, M. *et al*. Mitochondrial genome evidence reveals successful Late Paleolithic settlement on the Tibetan Plateau. Proc. Natl. Acad. Sci. USA **106,** 21230-21235 (2009).

5. van Oven M, Kayser M. Updated comprehensive phylogenetic tree of global human mitochondrial DNA variation. Hum. Mutat. **30,** E386-394 (2009).

6. Wen B, *et al.* Genetic evidence supports demic diffusion of Han culture. Nature **431,** 302-305 (2004).

7. Summerer, M. *et al.* Large-scale mitochondrial DNA analysis in Southeast Asia reveals evolutionary effects of cultural isolation in the multi-ethnic population of Myanmar. BMC Evol. Biol. **14,** 17 (2014).

8. Pradutkanchana, S., Ishida, T. & Kimura, R. Mitochondrial diversity of the sea nomads of Thailand. Unpublished (2011).

9. Yao, Y. G. *et al.* Genetic relationship of Chinese ethnic populations revealed by mtDNA sequence diversity. Am. J. Phys. Anthropol. **118,** 63-76 (2002).

10. Peng, M. S. *et al.* Tracing the Austronesian Footprint in Mainland Southeast Asia: A Perspective from Mitochondrial DNA. Mol. Biol. Evol. **27,** 2417-2430 (2010).

11. Wang, W. Z. *et al.* Tracing the origins of Hakka and Chaoshanese by mitochondrial DNA analysis. Am. J. Phys. Anthropol. **141,** 124-130 (2010).

12. Tabbada, K. A. *et al.* Philippine Mitochondrial DNA Diversity: A Populated Viaduct between Taiwan and Indonesia? Mol. Biol. Evol. **27,** 21-31 (2010).

13. Gazi, N. N. *et al.* Genetic Structure of Tibeto-Burman Populations of Bangladesh: Evaluating the Gene Flow along the Sides of Bay-of-Bengal. PLoS ONE **8,** e75064 (2013).

14. Hill, C. *et al.* A mitochondrial stratigraphy for island southeast Asia. Am. J. Hum. Genet. **80,** 29-43 (2007).

15. Cordaux, R. *et al.* Mitochondrial DNA analysis reveals diverse histories of tribal populations from India. Eur. J. Hum. Genet. **11,** 253-264 (2003).

16. Chandrasekar, A. *et al.* Updating phylogeny of mitochondrial DNA macrohaplogroup M in India: dispersal of modern human in South Asian corridor. PLoS ONE **4,** e7447 (2009).

17. Zimmermann, B. *et al.* Forensic and phylogeographic characterization of mtDNA lineages from northern Thailand (Chiang Mai). Int. J. Legal. Med. **123,** 495-501 (2009).

18. Eaaswarkhanth, M. *et al.* Traces of sub-Saharan and Middle Eastern lineages in Indian Muslim populations. Eur. J. Hum. Genet. **18,** 354-363 (2009).

19. Ji, F. Y. *et al.* Mitochondrial DNA variant associated with Leber hereditary optic neuropathy and high-altitude Tibetans. Proc. Natl. Acad. Sci. USA **109,** 7391-7396 (2012).

20. Fornarino, S. *et al.* Mitochondrial and Y-chromosome diversity of the Tharus (Nepal): a reservoir of genetic variation. BMC Evol. Biol. **9,** 154-171 (2009).

21. Kong, Q. P. *et al.* Large-scale mtDNA screening reveals a surprising matrilineal complexity in east asia and its implications to the peopling of the region. Mol. Biol. Evol. **28,** 513-522 (2011).

22. Maruyama, S., Minaguchi, K. & Saitou, N. Sequence polymorphisms of the mitochondrial DNA control region and phylogenetic analysis of mtDNA lineages in the Japanese population. Int. J. Legal. Med. **117,** 218-225 (2003).

23. Hill, C. *et al.* Phylogeography and ethnogenesis of aboriginal Southeast Asians. Mol. Biol. Evol. **23,** 2480-2491 (2006).

24. Oota, H., Settheetham-Ishida, W., Tiwawech, D., Ishida, T. & Stoneking, M. Human mtDNA and Y-chromosome variation is correlated with matrilocal versus patrilocal residence. Nat. Genet. **29,** 20-21 (2001).

25. Fucharoen, G., Fucharoen, S. & Horai, S. Mitochondrial DNA polymorphisms in Thailand. J. Hum. Genet. **46,** 115-125 (2001).

26. Kang, L. L. *et al.* MtDNA lineage expansions in Sherpa population suggest adaptive evolution in Tibetan highlands. Mol. Biol. Evol. **30,** 2579-2587 (2013).

27. Gayden, T. *et al.* The Himalayas: Barrier and conduit for gene flow. Am. J. Phys. Anthropol. **151,** 169-182 (2013).

28. Wen, B. *et al.* Analyses of genetic structure of Tibeto-Burman populations reveals sex-biased admixture in southern Tibeto-Burmans. Am. J. Hum. Genet. **74,** 856-865 (2004).

29. Wen, B. *et al.* Genetic evidence supports demic diffusion of Han culture. Nature **431,** 302-305 (2004).

30. Sharma, G. *et al.* Genetic Affinities of the Central Indian Tribal Populations. PLoS ONE **7,** e32546 (2012).