

Table S2. Populations under study

Code	G*	Population	Language Affiliation [†]	N [‡]	Sample Location	References
1	NE	Daur	Mongolic	45	Inner Mongolia	(1)
2	NE	Ewenki	Tungusic	47	Inner Mongolia	(1)
3	NE	Oroqen	Tungusic	44	Inner Mongolia	(1)
4	NE	Kazak	Turkic	53	Kashen, Xinjiang	(2, 3)
5	NE	Uzbek	Turkic	58	Yili, Xinjiang	(2)
6	NE	Uygur	Turkic	47	Yili/Kashen, Xinjiang	(2, 3)
7	NE	Mongolian_1	Mongolic	48	Inner Mongolia	(1)
8	NE	Mongolian_2	Mongolic	49	Yili, Xinjiang	(2)
9	NE	Korean_1	Koreanic	48	Inner Mongolia	(1)
10	NE	Korean_2	Koreanic	55	Yan Bian, Jilin	(4)
11	NE	Hui	Sinitic	45	Yili, Xinjiang	(2)
12	NE	Dongxiang	Mongolic	96	Gansu	(5)
13	NE	Bonan	Mongolic	95	Gansu	(6)
14	NE	Yugur	Turkic / Mongolic	100	Gansu	(7)
15	NE	Sala	Turkic	99	Qinghai	(8)
16	TB	Pumi	Tibeto-Burman	35	Ninglang, Lijiang, Yunnan	(9)
17	TB	Naxi	Tibeto-Burman	45	Lijiang, Yunnan	(9)
18	SE	Va_1	Tai-Kadai	22	Simao, Yunnan	(10)
19	SE	Va_2	Tai-Kadai	36	Ximeng/Gengma, Simao, Yunnan	(11)
20	TB	Tujia_1	Tibeto-Burman	66	Western Hunan	(9)
21	TB	Tujia_2	Tibeto-Burman	31	Yongshun, Hunan	(9)
22	TB	Yi_1	Tibeto-Burman	40	Shuangbai, Yunnan	(9)
23	TB	Yi_2	Tibeto-Burman	16	Xishuangbanna, Yunnan	(9)
24	SE	Dai_1	Tai-Kadai	21	Xishuangbanna, Yunnan	(10)
25	SE	Dai_2	Tai-Kadai	38	Xishuangbanna, Yunnan	(12)
26	TB	Aini	Tibeto-Burman	47	Xishuangbanna, Yunnan	(9)
27	TB	Bai_1	Tibeto-Burman	40	Dali, Yunnan	(9)
28	TB	Bai_2	Tibeto-Burman	19	Xishuangbanna, Yunnan	(9)
29	TB	Hani	Tibeto-Burman	33	Xishuangbanna, Yunnan	(9)
30	TB	Jino	Tibeto-Burman	18	Xishuangbanna, Yunnan	(9)
31	TB	Lahu_1	Tibeto-Burman	15	Xishuangbanna, Yunnan	(9)
32	TB	Lahu_2	Tibeto-Burman	32	Simao, Yunnan	(10)
33	TB	Lahu_3	Tibeto-Burman	35	Lancang, Simao, Yunnan	(11)
34	SE	Taiwan Aborigines	Formosan, Austronesian	180	Taiwan	(13)
35	SH	Han_Taiwan	Sinitic	155	Taiwan	(14)
36	SH	Han_Anhui	Sinitic	42	Hefei, Anhui	(15)
37	SH	Han_Fujian	Sinitic	54	Changtin, Fujian	(15)
38	SH	Han_Guangdong_1	Sinitic	30	Zhanjiang, Ganddong	(16)
39	SH	Han_Guangdong_2	Sinitic	69	Guangdong	(17)
40	NH	Han_Gansu	Sinitic	45	Gansu	(15)
41	SH	Han_Guangxi	Sinitic	26	Tianlin, Guangxi	(15)
42	SH	Han_Hubei	Sinitic	42	Wuhan, Hubei	(16)
43	SH	Han_Hunan_1	Sinitic	82	Changsha, Hunan	(18)
44	SH	Han_Hunan_2	Sinitic	16	Changsha, Hunan	(15)
45	NH	Han_Jilin	Sinitic	51	Yan Bian, Jilin	(19)
46	SH	Han_Jiangsu	Sinitic	67	Nanjing, Jiangsu	(15)

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47	SH	Han_Jiangxi	Sinitic	23	Nanchang, Jiangxi	(15)
48	NH	Han_Liaoning_1	Sinitic	51	Fengcheng, Liaoning	(16)
49	NH	Han_Liaoning_2	Sinitic	51	Dalian, Liaoning	(15)
50	NH	Han_Neimeng	Sinitic	45	Chifeng, Neimeng	(15)
51	NH	Han_Qinghai	Sinitic	44	Xining, Qinghai	(15)
52	SH	Han_Sichuan	Sinitic	70	Weicheng, Sichuan	(15)
53	NH	Han_Shandong_1	Sinitic	50	Qingdao, Shandong	(16)
54	NH	Han_Shandong_2	Sinitic	76	Tai'an, Shandong	(20)
55	SH	Han_Shanghai	Sinitic	56	Shanghai	(15)
56	SH	Han_Shanghai	Sinitic	120	Shanghai	(21)
57	NH	Han_Shaanxi_1	Sinitic	85	Xi'an, Shaanxi	(18)
58	NH	Han_Shaanxi_2	Sinitic	53	Xi'an, Shaanxi	(15)
59	NH	Han_Xinjiang	Sinitic	47	Yili, Xinjiang	(16)
60	SH	Han_Yunnan_1	Sinitic	43	Kunming, Yunnan	(16)
61	SH	Han_Yunnan_2	Sinitic	58	Huize, Yunnan	(15)
62	SH	Han_Zhejiang	Sinitic	61	Hangzhou, Zhejiang	(15)
63	TB	Nakchu_Tibetan	Tibetic	168	Nakchu, Tibet	Present study
64	TB	Shigatse_Tibetan	Tibetic	220	Shigatse, Tibet	Present study
65	TB	Tibet_Tibetan	Tibetic	54	Tibet	(22)
66	TB	Qinghai_Tibetan_1	Tibetic	56	Qinghai	(9)
67	TB	Qinghai_Tibetan_2	Tibetic	76	Qinghai	Present study
68	TB	Yunnan_Tibetan_1	Tibetic	35	Zhongdian, Diqing, Yunnan	(9)
69	TB	Yunnan_Tibetan_2	Tibetic	24	Diqing, Yunnan	(10)
70	TB	Yunnan_Tibetan_3	Tibetic	71	Diqing, Yunnan	Present study
71	TB	Sichuan_Tibetan	Tibetic	62	Liangshan, Sichuan	Present study
72	TB	Gansu_Tibetan	Tibetic	83	Gannan, Gansu	Present study

Notes: * Abbreviations “NE”, “TB”, “SE”, “NH” and “SH” refers to the northern ethnic groups,

Tibeto-Burman speaking populations, southern (autochthonous) ethnic groups, Northern Han

Chinese and Southern Han Chinese, respectively; [†] Classified according to the Ethnologue:

Languages of the World (<http://www.ethnologue.com/>); [‡] Number of samples under study.

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