

Table S1. Amount by which allele sizes were translated to make the HGDP-CEPH and Indian microsatellite data comparable.

	Name of locus in data file for India	Name of locus in data file for HGDP-CEPH	Amount to subtract from allele sizes in India data for combined analysis with HGDP-CEPH data
1	ATA11D10M_06_Q	ATA11D10	1
2	ATA18A07M_09	ATA18A07	1
3	ATA20G07M_05_P	ATA20G07	1
4	ATA22G07P_06_Q	ATA22G07	7
5	ATA23A10M_05_Q	ATA23A10	1
6	ATA25E07M_01_P	ATA25E07	1
7	ATA25F09M_12	ATA25F09	1
8	ATA27A06P_12	ATA27A06	7
9	ATA27C07P_04	ATA27C07	7
10	ATA27D04P_02_P	ATA27D04	7
11	ATA28G05P_15	ATA28G05	7
12	ATA29A06P_12	ATA29A06	7
13	ATA29C07L_01_Q	ATA29C07	?
14	ATA29G03Z_14	ATA29G03	0
15	ATA31G11P_10	ATA31G11	7
16	ATA33B03Z_11	ATA33B03	0
17	ATA34E08N_11	ATA34E08	0
18	ATA42G12M_01_P	ATA42G12	1
19	ATA55A11N_16	ATA55A11	0
20	ATA58A02P_17	ATA58A02	7
21	ATA59H06Z_09	ATA59H06	0
22	ATA5A04N_10	ATA5A04	0
23	ATA5A09N_13	ATA5A09	0
24	ATA78D02N_17	ATA78D02	0
25	ATA82B02N_18	ATA82B02	0
26	ATA9B04N_11	ATA9B04	0
27	ATC6A06M_17	ATC6A06	1
28	GAAT1A4N_08	GAAT1A4	0
29	GAAT2C03P_17	GAAT2C03	7
30	GATA115E01N_10	GATA115E01	0
31	GATA116B01N_02_P	GATA116B01	0
32	GATA117D01N_11	GATA117D01	0
33	GATA11A11P_05_Q	GATA11A11	7
34	GATA11C06N_16	GATA11C06	0
35	GATA11C08P_13	GATA11C08	7
36	GATA11E02N_06_P	GATA11E02	0
37	GATA121A08N_10	GATA121A08	0
38	GATA124C08N_01_P	GATA124C08	0
39	GATA128C02M_03_P	GATA128C02	1
40	GATA129B03N_20	GATA129B03	0
41	GATA129D11N_21	GATA129D11	0
42	GATA12A07N_01_P	GATA12A07	0
43	GATA133A08Q_01_P	GATA133A08	4
44	GATA137H02N_07_P	GATA137H02	0
45	GATA145D10N_05_P	GATA145D10	0
46	GATA151F03N_15	GATA151F03	0

47	GATA163B10N_06_P	GATA163B10	0
48	GATA164B08P_03_P	GATA164B08	7
49	GATA165G02M_06_Q	GATA165G02	1
50	GATA177C03N_18	GATA177C03	0
51	GATA178F11Z_18	GATA178F11	-67
52	GATA178G09M_02_Q	GATA178G09	1
53	GATA185C06Z_18	GATA185C06	17
54	GATA185H04N_17	GATA185H04	0
55	GATA187D09N_09	GATA187D09	0
56	GATA189C06M_07_Q	GATA189C06	1
57	GATA197B10P_15	GATA197B10	7
58	GATA198B05N_22	GATA198B05	0
59	GATA22F09P_16	GATA22F09	7
60	GATA22F11NZ_03_Q	GATA22F11	-58
61	GATA22G05M_04	GATA22G05	1
62	GATA23B01N_19	GATA23B01	0
63	GATA23C03P_13	GATA23C03	7
64	GATA23D03N_02_Q	GATA23D03	0
65	GATA23E06L_11	GATA23E06	3
66	GATA23F06L_11	GATA23F06	3
67	GATA24D12P_07_P	GATA24D12	7
68	GATA24H01N_04	GATA24H01	0
69	GATA26D02M_12	GATA26D02	1
70	GATA26E03M_08	GATA26E03	1
71	GATA26G09P_01_P	GATA26G09	7
72	GATA27C08P_03_P	GATA27C08	7
73	GATA28D01M_11	GATA28D01	1
74	GATA29A05P_01_P	GATA29A05	7
75	GATA29B01L_19	GATA29B01	-1
76	GATA29F06Z_20	GATA29F06	1
77	GATA30A03N_14	GATA30A03	0
78	GATA30D09N_07_Q	GATA30D09	0
79	GATA30E06P_02_Q	GATA30E06	7
80	GATA3C02M_03_Q	GATA3C02	1
81	GATA3H06M_05_Q	GATA3H06	1
82	GATA41G07M_07_P	GATA41G07	1
83	GATA42H02P_04	GATA42H02	8
84	GATA43H01M_14	GATA43H01	1
85	GATA43H03N_13	GATA43H03	0
86	GATA44F10P_19	GATA44F10	7
87	GATA45B10N_20	GATA45B10	0
88	GATA49C09N_17	GATA49C09	0
89	GATA49D12N_12	GATA49D12	0
90	GATA50C03N_15	GATA50C03	0
91	GATA51B02M_13	GATA51B02	1
92	GATA52A04M_02_Q	GATA52A04	1
93	GATA5B02M_04	GATA5B02	1
94	GATA62F03M_09	GATA62F03	1
95	GATA63A03N_15	GATA63A03	0
96	GATA63D12P_12	GATA63D12	7
97	GATA65C03M_02_Q	GATA65C03	1
98	GATA69E12M_02_P	GATA69E12	1
99	GATA6B02P_08	GATA6B02	7

100	GATA6B09P_11	GATA6B09	7
101	GATA72G09N_04	GATA72G09	0
102	GATA72G11N_02_P	GATA72G11	0
103	GATA73D10L_07_P	GATA73D10	-4
104	GATA73F01M_15	GATA73F01	1
105	GATA73H09N_12	GATA73H09	0
106	GATA74E02Z_14	GATA74E02	0
107	GATA7C06M_05_P	GATA7C06	1
108	GATA7D01ZP_04	GATA7D01	-37
109	GATA81C04M_09	GATA81C04	1
110	GATA81D12M_16	GATA81D12	1
111	GATA85A04M_12	GATA85A04	1
112	GATA86E02P_02_P	GATA86E02	7
113	GATA87E02N_09	GATA87E02	0
114	GATA88H02N_15	GATA88H02	0
115	GATA89G08Z_05_Q	GATA89G08	-31
116	GATA8B05M_03_P	GATA8B05	1
117	GATA8G10M_08	GATA8G10	1
118	GATA90D07N_11	GATA90D07	0
119	GATA91H06M_12	GATA91H06	1
120	GGAA10C09P_14	GGAA10C09	7
121	GGAA10F06M_22	GGAA10F06	1
122	GGAA17G05P_11	GGAA17G05	7
123	GGAA20C10M_08	GGAA20C10	1
124	GGAA20G10M_02_P	GGAA20G10	1
125	GGAA21G11L_14	GGAA21G11	2
126	GGAA22G10N_01_Q	GGAA22G10	0
127	GGAA23C05N_10	GGAA23C05	0
128	GGAA29H03N_13	GGAA29H03	0
129	GGAA2F11N_10	GGAA2F11	0
130	GGAA3A07M_01_P	GGAA3A07	1
131	GGAA4B09N_03_P	GGAA4B09	?
132	GGAA6D03N_07_Q	GGAA6D03	0
133	GGAT3H10M_06_P	GGT3H10	1
134	SRAP_02_P	SRA	7
135	UT1355Z_21	UT1355	3
136	UT2095M_11	UT2095	1
137	UT7129L_08	UT7129	-1
138	UT721M_08	UT721	1

Only those markers for which there was a change in primers are shown; this includes cases in which the primers changed, but the change did not affect the allele sizes. Markers highlighted in yellow were excluded from combined analysis of the HGDP-CEPH and India data, either because the appropriate allele size shift could not be determined, or because a systematic change in allele calling occurred.

Table S2. Latitudes and longitudes used for the samples from India.

Language group	Sample size	Latitude (degrees north)	Longitude (degrees east)
Assamese	25	26	93
Bengali	27	23.25766454	87.66666667
Gujarati	50	23	72
Hindi	28	26.98091726	78.39357143
Kannada	24	15	75
Kashmiri	25	32.44	74.54
Konkani	42	14.57081522	75.13095238
Malayalam	25	10	76.25
Marathi	26	19.81684261	75.94230769
Marwari	25	26.67171131	74.264
Oriya	26	20	85
Parsi	25	19	72.8
Punjabi	28	30.47159766	75.29071429
Tamil	29	11.10167224	77.94827586
Telugu	27	15.92575810	79.62962963

Table S3. Pairwise values of F_{st} for Indian populations.

	Assam.	Beng.	Gujar.	Hindi	Kann.	Kashm.	Konk.	Malaya.	Mara.	Marw.	Oriya	Parsi	Punj.	Tamil	Telu.
Assamese		0.30	0.97	0.58	0.57	0.79	0.53	0.89	0.43	1.01	0.46	2.95	0.57	0.54	0.11
Bengali	0.16		0.69	0.51	0.64	0.81	0.99	0.97	0.66	0.86	0.25	2.53	0.70	0.44	0.44
Gujarati	0.55	0.53		0.76	0.62	0.99	1.01	0.76	0.38	0.70	0.82	2.99	0.75	0.70	0.45
Hindi	0.27	0.12	0.59		0.37	0.64	0.92	0.51	0.54	0.63	0.65	2.28	0.32	0.26	0.35
Kannada	0.21	0.21	0.52	0.24		0.56	0.38	0.02	0.11	1.02	0.06	2.51	0.44	0.11	0.14
Kashmiri	0.44	0.24	0.66	0.22	0.40		0.78	0.35	0.56	1.54	0.85	2.06	0.04	0.44	0.56
Konkani	0.58	0.43	0.93	0.57	0.41	0.61		0.46	0.17	1.16	0.53	2.15	0.51	0.50	0.29
Malayalam	0.25	0.18	0.59	0.28	0.23	0.37	0.56		0.07	0.67	0.38	2.85	0.37	0.31	-0.12
Marathi	0.37	0.16	0.58	0.12	0.24	0.32	0.42	0.20		0.45	0.26	2.46	0.40	0.09	-0.22
Marwari	0.44	0.24	0.66	0.26	0.29	0.49	0.74	0.40	0.33		0.61	2.86	1.02	0.86	0.60
Oriya	0.18	0.07	0.46	0.17	0.06	0.29	0.51	0.19	0.27	0.35		2.88	0.57	0.37	0.12
Parsi	1.39	1.36	1.64	1.18	1.37	1.05	1.49	1.35	1.23	1.51	1.34		1.33	2.24	2.99
Punjabi	0.29	0.24	0.57	0.05	0.25	0.14	0.56	0.31	0.26	0.40	0.20	0.91		0.01	0.53
Tamil	0.32	0.15	0.55	0.25	0.13	0.25	0.58	0.20	0.16	0.39	0.14	1.19	0.24		0.27
Telugu	0.34	0.12	0.58	0.18	0.13	0.42	0.52	0.21	0.24	0.43	0.09	1.43	0.35	0.20	

The F_{st} estimates equal the values shown divided by a factor of 100. Values for microsatellites and indels are shown below and above the diagonal, respectively. Estimates for which the bootstrap 95% confidence interval did not overlap zero are shown in bold.