

Supplementary Table 1. Demographic information for FE groups in this study

Filipino group	Sample size	Geographical region	Island group	Political region	General language
Ivatan	29	Northern	Luzon	2	Northern
Ifugao	29	Northern	Luzon	CAR	Northern
Kankanaey	30	Northern	Luzon	CAR	Northern
Ibaloi	26	Northern	Luzon	CAR	Northern
Kalangoya	26	Northern	Luzon	2	Northern
Bugkalot	30	Northern	Luzon	2	Northern
Aeta from Zambales	10	Northern	Luzon	3	Northern
Aeta from Bataan	23	Northern	Luzon	3	Northern
Agta from Iriga	9	Central	Luzon	5	Central
Abaknon	30	Central	Visayas	8	Southern
Maranao	18	Southern	Mindanao	ARMM	Southern
Surigaonon	24	Southern	Mindanao	13	Central
Mamanwa	33	Southern	Mindanao	13	Southern
Manobo	40	Southern	Mindanao	13	Southern

Surigaonon, Mamanwa and Manobo data from Gunnarsdóttir *et al.* 2011a reanalyzed in this study

CAR: Cordillera Administrative Region

ARMM: Autonomous Region of Muslim Mindanao

Supplementary Table 2. DNA sequencing quality control information for FE group samples used in this study classified by population

Sample	Filipino group	DNA Library	DNA sample source	Collection year	Number of sequencing reads	Reads mapped	Consensus sequence length	Minimum coverage	Sample Coverage	Maximum coverage	Average coverage	Number of gaps	Gap length	Number of N	Haplogroup
lba2490	lbaloi	fred2	buccal cells, swab	1997	273689	10560	16562	5	48	88	248	0	0	0	B5b1c
lba2510	lbaloi	fred2	buccal cells, swab		242676	9870	16566	9	45	78		0	0	0	M7c3c
lba3659	lbaloi	fred2	buccal cells, swab		771516	22145	16568	37	101	141		0	0	0	M7c3c
lba3662	lbaloi	fred2	buccal cells, swab		338528	18088	16565	17	82	124		0	0	0	F1a4a
lba3670	lbaloi	fred2	buccal cells, swab		343380	10761	16568	6	49	93		0	0	0	M7c3c
lba925	lbaloi	fred2	buccal cells, swab		461034	16524	16568	21	75	116		0	0	0	M7c3c
lba927	lbaloi	fred2	buccal cells, swab		564747	17438	16568	15	79	122		0	0	0	M7c3c
lba928	lbaloi	fred2	buccal cells, swab		323951	16728	16568	17	76	127		0	0	0	M7c3c
lba929	lbaloi	fred2	buccal cells, swab		490162	19100	16571	19	87	134		0	0	0	D5b1c
lba930	lbaloi	fred2	buccal cells, swab		391966	13579	16569	12	61	104		0	0	0	D5b1c
lba931	lbaloi	fred2	buccal cells, swab		388224	11488	16566	11	52	91		0	0	0	M7c3c
lba934	lbaloi	fred2	buccal cells, swab		276631	10595	16569	5	48	92		0	0	0	D5b1c
lba945	lbaloi	fred2	buccal cells, swab		376175	12240	16560	4	56	101		0	0	0	B4a1a
lba951	lbaloi	fred2	buccal cells, swab		334318	13969	16568	12	63	104		0	0	0	F3b
lba952	lbaloi	fred2	buccal cells, swab		602261	16616	16555	17	75	125		0	0	0	B4a1a
lba954	lbaloi	fred2	buccal cells, swab		1213381	20946	16568	22	94	219		0	0	0	M7c3c
lba955	lbaloi	fred2	buccal cells, swab		719136	24794	16568	36	112	161		0	0	0	M7c3c
lba958	lbaloi	fred2	buccal cells, swab		270921	13883	16560	11	63	107		0	0	0	B4a1a
lba922	lbaloi	plate 7B	buccal cells, swab		131426	52219	16569	80	237	436		0	0	0	F3b
lba924	lbaloi	plate 7B	buccal cells, swab		247625	131609	16570	191	598	931		0	0	0	F3b
lba932	lbaloi	plate 7B	buccal cells, swab		155388	72851	16567	94	330	633		0	0	30	M13'46'61-T16362C
lba933	lbaloi	plate 7B	buccal cells, swab		403161	209193	16568	88	952	1447		0	0	0	E1a1a
lba949	lbaloi	plate 7B	buccal cells, swab		325699	170566	16557	173	770	4043		0	0	1	B4a1a
lba950	lbaloi	plate 7B	buccal cells, swab		293736	160361	16564	128	730	1130		0	0	0	F1a4a
lba959	lbaloi	plate 7B	buccal cells, swab		304320	133938	16560	142	609	1155		0	0	1	B5b1c
lba962	lbaloi	plate 7B	buccal cells, swab		393597	209747	16565	74	953	1578		0	0	1	B4a1a5
lfu1020	lfugao	fred2	buccal cells, swab	1997	310571	16830	16569	18	77	123	377	0	0	0	F3b
lfu1024	lfugao	fred2	buccal cells, swab		249539	9262	16569	5	42	79		0	0	0	M7c3c
lfu1025	lfugao	fred2	buccal cells, swab		502588	17892	16568	18	81	123		0	0	0	M7c3c
lfu1027	lfugao	fred2	buccal cells, swab		468222	17989	16570	14	82	126		0	0	0	Y2a1
lfu1028	lfugao	fred2	buccal cells, swab		392845	15893	16562	18	72	111		0	0	0	B5b1c
lfu1030	lfugao	fred2	buccal cells, swab		293060	14521	16569	8	66	115		0	0	0	M7c3c
lfu1031	lfugao	fred2	buccal cells, swab		381936	19923	16560	15	91	134		0	0	0	B4b1a2
lfu1033	lfugao	fred2	buccal cells, swab		328282	14174	16568	14	64	105		0	0	0	M7c3c
lfu1037	lfugao	fred2	buccal cells, swab		415275	13938	16559	15	63	98		0	0	0	B4a1a
lfu1038	lfugao	fred2	buccal cells, swab		461775	19178	16562	17	87	130		0	0	0	B5b1c
lfu1042	lfugao	fred2	buccal cells, swab		435318	19730	16560	22	90	130		0	0	0	B4a1a
lfu1043	lfugao	fred2	buccal cells, swab		364291	19227	16558	22	88	132		0	0	0	B4a1a5
lfu1044	lfugao	fred2	buccal cells, swab		661023	20584	16569	24	94	132		0	0	0	M7c3c
lfu1047	lfugao	fred2	buccal cells, swab		295016	14655	16557	12	67	108		0	0	0	B4a1a
lfu1054	lfugao	fred2	buccal cells, swab		351532	16687	16569	20	76	118		0	0	0	F3b
lfu1055	lfugao	fred2	buccal cells, swab		366989	13486	16569	8	61	114		0	0	0	R9c1
lfu1056	lfugao	fred2	buccal cells, swab		310085	18923	16562	12	86	127		0	0	0	B5b1c
lfu1021	lfugao	plate 7B	buccal cells, swab		201983	89017	16557	29	405	625		0	0	1	B4b1a2
lfu1023	lfugao	plate 7B	buccal cells, swab		97432	25375	16568	24	115	231		0	0	0	M7c3c
lfu1029	lfugao	plate 7B	buccal cells, swab		227870	115994	16569	112	527	752		0	0	0	D5b1c
lfu1032	lfugao	plate 7B	buccal cells, swab		716578	420900	16568	188	1914	3073		0	0	2	Y2a1
lfu1034	lfugao	plate 7B	buccal cells, swab		305389	103747	16562	113	472	714		0	0	0	B5b1c
lfu1035	lfugao	plate 7B	buccal cells, swab		275890	156704	16567	19	713	1228		0	0	0	B4b1a2
lfu1036	lfugao	plate 7B	buccal cells, swab		310933	143473	16567	171	652	1067		0	0	0	M7c3c
lfu1040	lfugao	plate 7B	buccal cells, swab		606257	341002	16568	136	1552	2258		0	0	0	B4a1a
lfu1041	lfugao	plate 7B	buccal cells, swab		325311	168734	16571	62	768	1226		0	0	1	B5b1c
lfu1045	lfugao	plate 7B	buccal cells, swab		235379	88476	16569	131	402	727		0	0	0	M7c3c
lfu1048	lfugao	plate 7B	buccal cells, swab		372528	207301	16569	62	943	1540		0	0	1	B5b1c
lfu1049	lfugao	plate 7B	buccal cells, swab		451738	262510	16568	119	1195	1850		0	0	1	R9c1
Kny1016	Kankanaey	fred3	buccal cells, swab	1997	365178	22194	16554	5	100	183	185	0	0	0	B4a1a
Kny2484	Kankanaey	fred3	buccal cells, swab		378239	26878	16555	35	122	158		0	0	0	B4a1a
Kny2496	Kankanaey	fred3	buccal cells, swab		459608	30612	16569	49	139	176		0	0	0	M7c3c
Kny947	Kankanaey	fred3	buccal cells, swab		396406	24507	16560	20	110	163		0	0	0	B5b1c
Kny948	Kankanaey	fred3	buccal cells, swab		457783	21825	16569	25	98	159		0	0	0	F3b
Kny965	Kankanaey	fred3	buccal cells, swab		467791	29254	16571	43	133	160		0	0	0	E1a1a1
Kny966	Kankanaey	fred3	buccal cells, swab		246808	24185	16569	26	110	147		0	0	0	M7c3c
Kny967	Kankanaey	fred3	buccal cells, swab		157213	21844	16569	29	99	148		0	0	0	M7c3c
Kny970	Kankanaey	fred3	buccal cells, swab		228006	24697	16563	22	113	148		0	0	0	B5b1c
Kny972	Kankanaey	fred3	buccal cells, swab		354381	30039	16569	50	137	164		0	0	0	F3b
Kny973	Kankanaey	fred3	buccal cells, swab		452200	29994	16569	37	137	164		0	0	0	M7c3c
Kny974	Kankanaey	fred3	buccal cells, swab		296543	27752	16560	30	126	160		0	0	0	B4b1a2

Kny975	Kankanaey	fred3	buccal cells, swab		381387	29389	16563	43	134	163	0	0	0	B5b1c	
Kny976	Kankanaey	fred3	buccal cells, swab		182749	16593	16570	14	75	120	0	0	0	Y2a1	
Kny977	Kankanaey	fred3	buccal cells, swab		497274	31508	16569	62	143	170	0	0	0	Y2a1	
Kny978	Kankanaey	fred3	buccal cells, swab		328309	24032	16570	30	109	149	0	0	0	Y2a1	
Kny979	Kankanaey	fred3	buccal cells, swab		481209	27729	16556	34	126	157	0	0	0	B4a1a	
Kny980	Kankanaey	fred3	buccal cells, swab		164402	16600	16569	17	76	111	0	0	0	M7c3c	
Kny981	Kankanaey	fred3	buccal cells, swab		447681	30321	16570	59	138	165	0	0	0	Y2a1	
Kny982	Kankanaey	fred3	buccal cells, swab		246872	20109	16560	17	91	130	0	0	0	B4b1a2	
Kny983	Kankanaey	fred3	buccal cells, swab		460900	31899	16555	54	145	175	0	0	0	B4a1a	
Kny985	Kankanaey	fred3	buccal cells, swab		364447	26763	16570	32	122	157	0	0	0	Y2a1	
Kny986	Kankanaey	fred3	buccal cells, swab		341417	29846	16563	54	136	162	0	0	0	B5b1c	
Kny988	Kankanaey	fred3	buccal cells, swab		496663	30121	16569	49	137	164	0	0	0	F3b	
Kny991	Kankanaey	fred3	buccal cells, swab		401552	29537	16560	54	135	163	0	0	0	B4b1a2	
Kny992	Kankanaey	fred3	buccal cells, swab		518972	31253	16569	51	142	185	0	0	0	D5b1c	
Kny994	Kankanaey	fred3	buccal cells, swab		350954	29360	16569	45	134	162	0	0	0	M7c3c	
Kny995	Kankanaey	fred3	buccal cells, swab		453177	33093	16562	54	151	180	0	0	0	B5b1c	
Kny964	Kankanaey	plate 7B	buccal cells, swab		414010	243478	16564	87	1109	1798	0	0	3	B4a1a	
Kny968	Kankanaey	plate 7B	buccal cells, swab		395514	224001	16570	186	1020	1525	0	0	2	E1a1a1	
AeZ1769	Aeta from Zambales	plate 8A	blood on FTA card	1998	993218	2284	16566	0	10	72	10	1	10	109	M52a
AeZ1779	Aeta from Zambales	plate 8A	blood on FTA card		1351261	2956	16567	1	13	84		0	0	18	M
AeZ1783	Aeta from Zambales	plate 8A	blood on FTA card		1015622	2028	16566	0	9	79		1	12	119	M52a
AeZ1785	Aeta from Zambales	plate 8A	blood on FTA card		1026887	2187	16570	0	9	69		2	11	105	M52'58
AeZ1787	Aeta from Zambales	plate 8A	blood on FTA card		1038872	2636	16566	1	12	75		0	0	86	M52'58
AeZ1789	Aeta from Zambales	plate 8A	blood on FTA card		968435	2179	16567	0	9	74		1	17	90	M52a
AeZ1790	Aeta from Zambales	plate 8A	blood on FTA card		1106004	2511	16567	1	11	86		0	0	29	M52a
AeZ1791	Aeta from Zambales	plate 8A	blood on FTA card		1208424	2895	16567	2	13	85		0	0	12	M52'58
AeZ1794	Aeta from Zambales	plate 8A	blood on FTA card		783942	2122	16566	1	9	62		0	0	39	M
AeZ1795	Aeta from Zambales	plate 8A	blood on FTA card		943056	2154	16567	0	9	73		1	12	99	M52a
Bug3242	Bugkalot	fred2	buccal cells, swab	2002	322288	6854	16568	4	31	71	331	0	0	0	Y2a1
Bug3245	Bugkalot	fred2	buccal cells, swab		372819	9329	16568	8	42	78		0	0	0	M7c3c
Bug3246	Bugkalot	fred2	buccal cells, swab		298162	6453	16566	6	29	58		0	0	0	F1a4a
Bug3259	Bugkalot	fred2	buccal cells, swab		342061	16649	16571	19	76	118		0	0	0	Y2a1
Bug3263	Bugkalot	fred2	buccal cells, swab		561669	23171	16570	25	104	176		0	0	0	E1a1a1
Bug3264	Bugkalot	fred2	buccal cells, swab		890009	19023	16568	14	86	135		0	0	0	F3b1
Bug3266	Bugkalot	fred2	buccal cells, swab		654991	29280	16570	34	131	189		0	0	0	Y2a1
Bug3268	Bugkalot	fred2	buccal cells, swab		587482	23821	16568	22	108	149		0	0	0	M7c3c
Bug3270	Bugkalot	fred2	buccal cells, swab		550048	17235	16569	12	78	126		0	0	0	M7c3c
Bug3275	Bugkalot	fred2	buccal cells, swab		611024	31900	16568	56	145	181		0	0	0	M7c3c
Bug3283	Bugkalot	fred2	buccal cells, swab		552038	17801	16571	10	81	129		0	0	0	E1a1a1
Bug3284	Bugkalot	fred2	buccal cells, swab		439577	18300	16559	20	83	131		0	0	0	B5b1c
Bug3285	Bugkalot	fred2	buccal cells, swab		364432	14510	16570	8	66	112		0	0	0	R9c1
Bug3286	Bugkalot	fred2	buccal cells, swab		349421	19886	16569	22	90	135		0	0	0	M7c3c
Bug3288	Bugkalot	fred2	buccal cells, swab		382081	16328	16570	16	74	118		0	0	0	Y2a1
Bug3229	Bugkalot	plate 7B	buccal cells, swab		389427	117221	16569	120	533	866		0	0	0	M7c3c
Bug3230	Bugkalot	plate 7B	buccal cells, swab		461757	246100	16564	223	1119	1799		0	0	1	F1a4a
Bug3232	Bugkalot	plate 7B	buccal cells, swab		384131	118541	16564	88	538	866		0	0	0	F1a4a
Bug3234	Bugkalot	plate 7B	buccal cells, swab		280015	60961	16566	67	277	498		0	0	1	M7c3c
Bug3235	Bugkalot	plate 7B	buccal cells, swab		362785	101021	16564	86	460	690		0	0	0	F1a4a
Bug3236	Bugkalot	plate 7B	buccal cells, swab		441012	172702	16569	163	785	1298		0	0	0	Y2a1
Bug3237	Bugkalot	plate 7B	buccal cells, swab		429635	182508	16570	188	830	1410		0	0	0	Y2a1
Bug3238	Bugkalot	plate 7B	buccal cells, swab		321243	149676	16568	148	681	1057		0	0	1	M7c3c
Bug3243	Bugkalot	plate 7B	buccal cells, swab		365932	165360	16568	239	751	1471		0	0	0	M7c3c
Bug3244	Bugkalot	plate 7B	buccal cells, swab		282092	125698	16568	130	571	935		0	0	0	M7c3c
Bug3247	Bugkalot	plate 7B	buccal cells, swab		212021	37041	16566	37	168	259		0	0	1	M7c3c
Bug3262	Bugkalot	plate 7B	buccal cells, swab		52622	27010	16571	5	122	292		0	0	1	E1a1
Bug3269	Bugkalot	plate 7B	buccal cells, swab		430929	201596	16570	278	916	1432		0	0	0	P2'10
Bug3271	Bugkalot	plate 7B	buccal cells, swab		206488	135156	16569	106	613	1453		0	0	2	E1a1a1
Bug3272	Bugkalot	plate 7B	buccal cells, swab		137837	73920	16570	126	335	551		0	0	0	P2'10
Iva3300	Ivatan	plate 7B	buccal cells, swab	2002	317781	231041	16565	87	1051	1695	2607	0	0	0	F1a3a
Iva3302	Ivatan	plate 7B	buccal cells, swab		600326	314823	16570	405	1432	2129		0	0	0	Y2a1
Iva3304	Ivatan	plate 7B	buccal cells, swab		1780808	1317058	16570	500	5997	8479		0	0	0	E1a1a
Iva3309	Ivatan	plate 7B	buccal cells, swab		252062	193250	16567	335	879	1616		0	0	0	F1a3a
Iva3311	Ivatan	plate 7B	buccal cells, swab		655089	549021	16559	429	2502	6186		0	0	0	B4a1a3
Iva3318	Ivatan	plate 7B	buccal cells, swab		306537	251760	16565	71	1147	1972		0	0	0	B4a1a5
Iva3321	Ivatan	plate 7B	buccal cells, swab		487898	363968	16567	500	1655	2773		0	0	0	M7c3-T16295C!
Iva3324	Ivatan	plate 7B	buccal cells, swab		684883	549268	16568	301	2501	4609		0	0	1	R9c1a
Iva3325	Ivatan	plate 7B	buccal cells, swab		429773	314117	16568	197	1423	14222		0	0	2	Y2a1
Iva3327	Ivatan	plate 7B	buccal cells, swab		211202	143707	16567	179	654	1568		0	0	0	R9c1a
Iva3329	Ivatan	plate 7B	buccal cells, swab		66540	22032	16560	36	100	219		0	0	2	B5b1c

Iva3330	Ivatan	plate 7B	buccal cells, swab		1085533	635656	16567	500	2891	5537	0	0	0	M7c3-T16295C!	
Iva3331	Ivatan	plate 7B	buccal cells, swab		47940	22035	16567	29	100	329	0	0	0	M7c3-T16295C!	
Iva3332	Ivatan	plate 7B	buccal cells, swab		3483065	2974578	16567	500	13527	22907	0	0	1	B4c1b2a2	
Iva3333	Ivatan	plate 7B	buccal cells, swab		80494	41948	16567	24	190	425	0	0	0	B4a1a4	
Iva3334	Ivatan	plate 7B	buccal cells, swab		399464	139752	16559	121	636	1111	0	0	1	B4a1a3	
Iva3336	Ivatan	plate 7B	buccal cells, swab		3557180	3035900	16566	500	13826	20098	0	0	0	F1a3a	
Iva3346	Ivatan	plate 7B	buccal cells, swab		31621	2523	16563	2	11	27	0	0	18	R	
Iva3374	Ivatan	plate 7B	buccal cells, swab		878962	741834	16567	500	3374	5556	0	0	0	F1a3a	
Iva3384	Ivatan	plate 7B	buccal cells, swab		294031	215817	16568	353	980	2759	0	0	1	R9c1a	
Iva3407	Ivatan	plate 7B	buccal cells, swab		299520	225543	16567	249	1026	1817	0	0	0	M7c3-T16295C!	
Iva3424	Ivatan	plate 7B	buccal cells, swab		87033	51624	16565	20	235	639	0	0	1	B4a1a4	
Iva3432	Ivatan	plate 7B	buccal cells, swab		635376	283877	16570	305	1292	2073	0	0	0	E1a1a	
Iva3459	Ivatan	plate 7B	buccal cells, swab		3894953	3094732	16561	500	14081	23364	0	0	0	B4c1b2a2	
Iva3476	Ivatan	plate 7B	buccal cells, swab		519027	233931	16561	217	1064	1563	0	0	0	B4c1b2a2	
Iva3481	Ivatan	plate 7B	buccal cells, swab		376437	114053	16567	139	519	976	0	0	0	F1a3a	
Iva3484	Ivatan	plate 7B	buccal cells, swab		425938	116629	16560	143	529	1097	0	0	0	B4c1b2a2	
Iva3492	Ivatan	plate 7B	buccal cells, swab		547373	253799	16568	91	1154	3008	0	0	1	B5b1c	
Iva3508	Ivatan	plate 7B	buccal cells, swab		477066	185039	16559	120	841	1444	0	0	2	B5a2a	
Kla3586	Kalangoya	fred3	buccal cells, swab	2002	554362	30608	16568	53	139	169	208	0	0	0	M7c3c
Kla3590	Kalangoya	fred3	buccal cells, swab		392994	19442	16569	14	88	139	0	0	0	0	M7c3c
Kla3591	Kalangoya	fred3	buccal cells, swab		1030823	48095	16568	100	212	322	0	0	0	0	M7c3c
Kla3592	Kalangoya	fred3	buccal cells, swab		486535	24019	16560	22	109	153	0	0	0	0	B4a1a
Kla3596	Kalangoya	fred3	buccal cells, swab		230134	27379	16562	37	124	196	0	0	0	0	B5b1c
Kla3597	Kalangoya	fred3	buccal cells, swab		610020	34829	16562	77	158	219	0	0	0	0	B5b1c
Kla3605	Kalangoya	fred3	buccal cells, swab		457312	27401	16562	26	124	166	0	0	0	0	B5b1c
Kla3606	Kalangoya	fred3	buccal cells, swab		155369	19198	16563	13	87	189	0	0	0	0	B5b1c
Kla3607	Kalangoya	fred3	buccal cells, swab		380745	21844	16568	22	99	159	0	0	0	0	M7c3c
Kla3608	Kalangoya	fred3	buccal cells, swab		1416817	43589	16560	113	194	275	0	0	0	0	B4a1a
Kla3612	Kalangoya	fred3	buccal cells, swab		116297	13420	16568	12	61	125	0	0	0	0	M7c3c
Kla3621	Kalangoya	fred3	buccal cells, swab		226352	29255	16568	39	132	202	0	0	0	0	M7c3c
Kla3622	Kalangoya	fred3	buccal cells, swab		687327	40618	16568	87	182	256	0	0	0	0	M7c3c
Kla3623	Kalangoya	fred3	buccal cells, swab		433394	30112	16560	31	137	185	0	0	0	0	B4a1a
Kla3625	Kalangoya	fred3	buccal cells, swab		180325	10883	16568	4	49	97	0	0	0	0	M7c3c
Kla3626	Kalangoya	fred3	buccal cells, swab		167840	14615	16569	13	66	119	0	0	0	0	M7c3c
Kla3627	Kalangoya	fred3	buccal cells, swab		572107	30393	16560	45	138	187	0	0	0	0	B4a1a
Kla3634	Kalangoya	fred3	buccal cells, swab		447909	33206	16568	61	150	220	0	0	0	0	M7c3c
Kla3635	Kalangoya	fred3	buccal cells, swab		264212	19575	16560	9	89	157	0	0	0	0	B4a1a
Kla3638	Kalangoya	fred3	buccal cells, swab		367337	22387	16556	12	102	149	0	0	0	0	B4a1a
Kla3640	Kalangoya	fred3	buccal cells, swab		786127	38292	16568	82	172	224	0	0	0	0	M7c3c
Kla3641	Kalangoya	fred3	buccal cells, swab		679078	33610	16562	71	152	201	0	0	0	0	B5b1c
Kla3644	Kalangoya	fred3	buccal cells, swab		599839	31208	16568	58	142	180	0	0	0	0	M7c3c
Kla3633	Kalangoya	plate 7B	buccal cells, swab		759012	385735	16566	148	1756	2641	0	0	0	0	B4a1a5
Kla3636	Kalangoya	plate 7B	buccal cells, swab		101684	72118	16564	40	328	612	0	0	0	0	F1a4a
Kla3643	Kalangoya	plate 7B	buccal cells, swab		367979	89576	16560	63	407	693	0	0	0	0	B5b1c
Mara3215	Maranao	fred3	buccal cells, swab	2002	283896	23925	16570	28	109	158	397	0	0	0	D6c
Mara3676	Maranao	fred3	buccal cells, swab		505756	30992	16570	47	141	179	0	0	0	0	Y2a
Mara3677	Maranao	fred3	buccal cells, swab		214328	14326	16569	13	65	107	0	0	0	0	P1d1
Mara3680	Maranao	fred3	buccal cells, swab		635387	34729	16557	62	157	215	0	0	0	0	B4b1a2
Mara3681	Maranao	fred3	buccal cells, swab		857552	42435	16570	93	190	330	0	0	0	0	M7b3a
Mara3682	Maranao	fred3	buccal cells, swab		1092183	39386	16568	86	177	249	0	0	0	0	F3b1
Mara3684	Maranao	fred3	buccal cells, swab		344010	34933	16570	63	158	201	0	0	0	0	D6c
Mara3705	Maranao	fred3	buccal cells, swab		284747	16584	16570	6	75	149	0	0	0	0	M7b3a
Mara3710	Maranao	fred3	buccal cells, swab		336687	19526	16561	8	89	168	0	0	0	0	B4a1
Mara3181	Maranao	plate 7B	buccal cells, swab		19887	4171	16559	0	19	45	1	10	15	0	B4c1b2a2
Mara3182	Maranao	plate 7B	buccal cells, swab		24105	5674	16571	1	25	54	0	0	2	0	D6c
Mara3214	Maranao	plate 7B	buccal cells, swab		150669	80766	16557	52	368	684	0	0	0	0	B4b1a2b
Mara3675	Maranao	plate 7B	buccal cells, swab		650592	471540	16568	250	2147	3031	0	0	4	0	P2'10
Mara3678	Maranao	plate 7B	buccal cells, swab		89941	45675	16569	55	207	391	0	0	0	0	M50
Mara3683	Maranao	plate 7B	buccal cells, swab		729623	421566	16557	425	1922	2577	0	0	0	0	B4a1a1a
Mara3702	Maranao	plate 7B	buccal cells, swab		286479	179770	16570	57	818	3077	0	0	0	0	D6c
Mara3706	Maranao	plate 7B	buccal cells, swab		515229	76980	16570	69	350	888	0	0	4	0	E1a1a1
Mara3707	Maranao	plate 7B	buccal cells, swab		37195	29356	16568	58	133	216	0	0	0	0	R9c1a
AeB4063	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card	2003	327550	7335	16561	2	33	88	98	0	0	1	B4b1a
AeB4066	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		440019	12069	16557	3	54	114	0	0	0	0	B4b1a2
AeB4068	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		489689	27047	16568	14	123	242	0	0	0	0	P
AeB4069	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		415905	37068	16567	35	168	337	0	0	0	0	P
AeB4070	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		376223	46674	16555	12	212	477	0	0	1	0	B4b1a2
AeB4072	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		349678	78738	16569	80	358	701	0	0	0	0	M7b3a
AeB4073	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		282126	3624	16558	0	16	54	1	2	19	0	B4b1a2

AeB4074	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		287716	10590	16561	6	48	126	0	0	1	B4b1a	
AeB4077	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		201378	4849	16567	0	22	57	1	1	43	B4b1a2	
AeB4079	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		253781	34275	16560	37	156	308	0	0	0	B4b1a2	
AeB4080	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		398415	52945	16567	35	241	482	0	0	1	P	
AeB4081	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		380049	12510	16561	15	56	136	0	0	2	B4b1a2	
AeB4082	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		137520	23872	16568	16	108	290	0	0	0	P	
AeB4083	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		132890	10260	16561	0	46	144	1	7	8	B4b1a2	
AeB4086	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		364043	15172	16561	12	69	149	0	0	0	B4b1a2	
AeB4087	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		401608	5032	16567	4	22	55	0	0	2	P	
AeB4088	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		517432	34206	16566	22	155	337	0	0	0	P	
AeB4089	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		342947	14239	16560	6	64	159	0	0	0	B4b1a2	
AeB4090	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		344418	10984	16568	6	49	112	0	0	0	P	
AeB4094	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		113997	7768	16568	5	35	106	0	0	10	P	
AeB4097	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		182394	26638	16568	21	121	264	0	0	0	P	
AeB4098	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		279051	4184	16561	3	19	52	0	0	4	B4b1a	
AeB4103	Aeta from Bataan	plate 8A	buccal cells, saliva on FTA card		248446	17049	16566	11	77	164	0	0	0	F1a3a	
Agl4385	Agta from Iriga	plate 8A	buccal cells, saliva on FTA card	2004	1053686	2630	16567	0	11	74	28	1	10	49	M52'58
Agl4386	Agta from Iriga	plate 8A	buccal cells, saliva on FTA card		820965	1982	16566	1	9	72	0	0	0	91	M52'58
Agl4392	Agta from Iriga	plate 8A	buccal cells, saliva on FTA card		495410	7908	16560	3	36	222	0	0	0	9	B4'5
Agl4396	Agta from Iriga	plate 8A	buccal cells, saliva on FTA card		868576	2339	16567	0	10	64	1	2	76	M52'58	
Agl4397	Agta from Iriga	plate 8A	buccal cells, saliva on FTA card		995536	2243	16566	1	10	67	0	0	0	47	M52a
Agl4398	Agta from Iriga	plate 8A	buccal cells, saliva on FTA card		1024372	4308	16566	1	19	99	0	0	0	54	M
Agl4399	Agta from Iriga	plate 8A	buccal cells, saliva on FTA card		781149	13665	16558	5	62	236	0	0	0	9	B4b1a
Agl4401	Agta from Iriga	plate 8A	buccal cells, saliva on FTA card		1266166	3014	16567	0	13	100	1	4	36	M52'58	
Agl4405	Agta from Iriga	plate 8A	buccal cells, saliva on FTA card		630511	18779	16576	1	85	1180	0	0	12	M7c3-T16295C!	
Aba4956	Abaknon	plate 7A	buccal cells, saliva	2007	349072	103504	16569	77	471	744	313	0	0	0	D6a
Aba4957	Abaknon	plate 7A	buccal cells, saliva		169961	30366	16562	26	138	221	0	0	1	B5b1c	
Aba4962	Abaknon	plate 7A	buccal cells, saliva		315067	85185	16562	102	388	619	0	0	1	B5b1c	
Aba4963	Abaknon	plate 7A	buccal cells, saliva		186729	43000	16559	46	195	302	0	0	0	B5a1d	
Aba4968	Abaknon	plate 7A	buccal cells, saliva		189154	33714	16563	35	153	253	0	0	0	F1a4a	
Aba4969	Abaknon	plate 7A	buccal cells, saliva		201511	66495	16569	89	302	464	0	0	0	E1a1a	
Aba4974	Abaknon	plate 7A	buccal cells, saliva		253109	68213	16559	56	311	462	0	0	0	B4c1b2a2	
Aba4980	Abaknon	plate 7A	buccal cells, saliva		169510	29942	16570	49	136	234	0	0	0	M7b3a	
Aba4983	Abaknon	plate 7A	buccal cells, saliva		221503	47424	16567	77	215	353	0	0	0	M17c	
Aba4984	Abaknon	plate 7A	buccal cells, saliva		209606	48151	16569	54	218	326	0	0	0	E1a1a	
Aba4987	Abaknon	plate 7A	buccal cells, saliva		307930	64238	16566	103	292	457	0	0	1	F1a3a	
Aba4990	Abaknon	plate 7A	buccal cells, saliva		249006	48294	16570	56	220	352	0	0	0	E1a1a	
Aba4992	Abaknon	plate 7A	buccal cells, saliva		337696	97836	16557	132	445	714	0	0	0	B4a1a	
Aba4994	Abaknon	plate 7A	buccal cells, saliva		394878	78052	16559	60	355	613	0	0	0	B4b1a2	
Aba4995	Abaknon	plate 7A	buccal cells, saliva		378179	73556	16570	105	335	531	0	0	0	E1a1a	
Aba4997	Abaknon	plate 7A	buccal cells, saliva		374210	107954	16567	91	491	746	0	0	0	B4a1a	
Aba5001	Abaknon	plate 7A	buccal cells, saliva		220142	58498	16559	55	266	471	0	0	0	B4a1a	
Aba5006	Abaknon	plate 7A	buccal cells, saliva		251759	42343	16568	54	192	332	0	0	0	M7c3c	
Aba5021	Abaknon	plate 7A	buccal cells, saliva		341756	58320	16561	100	265	415	0	0	0	B5b1c	
Aba5033	Abaknon	plate 7A	buccal cells, saliva		410688	110033	16569	41	500	778	0	0	0	B4b1a2	
Aba5037	Abaknon	plate 7A	buccal cells, saliva		376605	108066	16557	135	492	794	0	0	0	B4a1a	
Aba5040	Abaknon	plate 7A	buccal cells, saliva		318303	55554	16569	66	253	381	0	0	0	E1a1a	
Aba5041	Abaknon	plate 7A	buccal cells, saliva		268718	51413	16570	75	234	361	0	0	1	E1a1a	
Aba5044	Abaknon	plate 7A	buccal cells, saliva		362086	89096	16567	188	406	587	0	0	0	R-T16189C!	
Aba5046	Abaknon	plate 7A	buccal cells, saliva		282719	73502	16562	95	335	585	0	0	0	B5b1c	
Aba5079	Abaknon	plate 7A	buccal cells, saliva		289331	65033	16562	61	296	453	0	0	1	B4c1b2a2	
Aba5084	Abaknon	plate 7A	buccal cells, saliva		355859	77620	16560	72	353	532	0	0	0	B4b1a2	
Aba5124	Abaknon	plate 7A	buccal cells, saliva		460200	108876	16567	189	495	765	0	0	0	M17c	
Aba5140	Abaknon	plate 7A	buccal cells, saliva		364800	99661	16568	117	454	788	0	0	0	M7c3c	
Aba5163	Abaknon	plate 7A	buccal cells, saliva		227871	43073	16566	31	196	318	0	0	0	F1a4a	

Reads mapped: reads that mapped to the mtDNA genome

N: ambiguous base

Haplogroup: assignments by mtDNABLE (Behar *et al.* 2012)

Supplementary Table 3. Group information for the Reference data set used in this study

Group	Sample size	Region	Reference
Andh	19	South Asia	Chandrasekar <i>et al.</i> 2009
BettaKuruba	30	South Asia	Chandrasekar <i>et al.</i> 2009
DongriBhill	42	South Asia	Chandrasekar <i>et al.</i> 2009
DirangMonpa	30	South Asia	Chandrasekar <i>et al.</i> 2009
Gallong	39	South Asia	Chandrasekar <i>et al.</i> 2009
JenuKuruba	79	South Asia	Chandrasekar <i>et al.</i> 2009
Kathodi	15	South Asia	Chandrasekar <i>et al.</i> 2009
Korku	15	South Asia	Chandrasekar <i>et al.</i> 2009
Kamar	53	South Asia	Chandrasekar <i>et al.</i> 2009
Katkari	21	South Asia	Chandrasekar <i>et al.</i> 2009
Kathakur	19	South Asia	Chandrasekar <i>et al.</i> 2009
Lachungpa	25	South Asia	Chandrasekar <i>et al.</i> 2009
Lepcha	20	South Asia	Chandrasekar <i>et al.</i> 2009
Madia	20	South Asia	Chandrasekar <i>et al.</i> 2009
Malpaharia	15	South Asia	Chandrasekar <i>et al.</i> 2009
Munda	30	South Asia	Chandrasekar <i>et al.</i> 2009
Mathakur	10	South Asia	Chandrasekar <i>et al.</i> 2009
NIhal	30	South Asia	Chandrasekar <i>et al.</i> 2009
PauriBhuiya	32	South Asia	Chandrasekar <i>et al.</i> 2009
SonowalKachari	19	South Asia	Chandrasekar <i>et al.</i> 2009
Shertukpen	15	South Asia	Chandrasekar <i>et al.</i> 2009
Toto	28	South Asia	Chandrasekar <i>et al.</i> 2009
Wanchoo	22	South Asia	Chandrasekar <i>et al.</i> 2009
IndianMuslim	12	South Asia	Eaaswarkhanth <i>et al.</i> 2009
Bhargava	12	South Asia	Palanichamy <i>et al.</i> 2004
Chaturvedi	12	South Asia	Palanichamy <i>et al.</i> 2004
Brahmin	21	South Asia	Palanichamy <i>et al.</i> 2004
Reddy	19	South Asia	Palanichamy <i>et al.</i> 2004
Andaman	15	South Asia	Thangaraj <i>et al.</i> 2005
Vietnam	11	Southeast Asia	Hill <i>et al.</i> 2006, Soares <i>et al.</i> 2008, Tabbada <i>et al.</i> 2010
Besemah	36	Southeast Asia	Gunnarsdóttir <i>et al.</i> 2011b
Semende	36	Southeast Asia	Gunnarsdóttir <i>et al.</i> 2011b
Bidayuh	23	Southeast Asia	Jinam <i>et al.</i> 2012
Jehai	24	Southeast Asia	Jinam <i>et al.</i> 2012
Seletar	21	Southeast Asia	Jinam <i>et al.</i> 2012
Temuan	18	Southeast Asia	Soares <i>et al.</i> 2008, Jinam <i>et al.</i> 2012
Indonesia	41	Southeast Asia	Soares <i>et al.</i> 2008, Soares <i>et al.</i> 2011
HanChinese	43	North East Asia	Kong <i>et al.</i> 2003
Japan	657	North East Asia	Tanaka <i>et al.</i> 2004
Taiwan	27	North East Asia	Trejaut <i>et al.</i> 2005, Soares <i>et al.</i> 2008, Tabbada <i>et al.</i> 2010, Soares <i>et al.</i> 2011
Australia	13	Australia	van Holst Pellekaan <i>et al.</i> 2006, Hudjashov <i>et al.</i> 2007
Near Oceania	67	Oceania	Friedlaender <i>et al.</i> 2005, Merriwether <i>et al.</i> 2005, Pierson <i>et al.</i> 2006, Friedlaender <i>et al.</i> 2007, Soares <i>et al.</i> 2011
Remote Oceania	23	Oceania	Pierson <i>et al.</i> 2006, Soares <i>et al.</i> 2011

Supplementary Table 5. Estimates of FE group current effective population sizes ( $N_e$ ).

Filipino group	n	C	A			B		
			HPD lower	BE	HPD upper	HPD lower	BE	HPD upper
Ivatan	29	35,000	703	2,172	5,244	811	2,506	5,977
Ifugao	29	100,000	606	2,636	9,404	720	2,814	9,192
Kankanaey	30	150,000	428	1,839	7,038	530	1,880	6,532
Ibaloi	26	111,000	417	1,730	5,783	523	1,925	5,674
Kalangoya	26	15,000	389	2,438	10,286	449	2,293	9,299
Bugkalot	30	50,800	278	856	2,116	357	1,013	2,301
<u>AetaZ</u>	10	1,660	-	-	-	28	228	971
<u>AetaB</u>	23	2,000	211	858	2,630	283	1,052	3,019
<u>AgtaI</u>	9	3,000	52	579	2,756	132	954	3,918
Abaknon	30	214,000	930	3,307	8,232	1,050	3,733	9,233
Surigaonon	24	345,000	1,035	3,927	9,868	1,133	4,641	11,092
<u>Mamanwa</u>	33	5,150	455	1,481	3,953	553	1,615	3,926
Manobo	40	7,570	757	2,282	5,705	846	2,528	6,128
Maranao	18	776,000	7,556	22,650	49,116	10,748	29,098	60,925

FEN groups are underlined; n: sample size; C: census sizes from Lewis 2009; BE (Bayesian estimate);

HPD: 95% highest posterior density or credible intervals (CI);

A:  $N_e$  estimated using FE group data only; B:  $N_e$  estimated including RSRS as tree root;

$N_e$  values were extrapolated using a generation time of 28 years

Values under 'A' columns are relevant to Supplementary Figure 4.

Values under 'B' columns are relevant to Supplementary Figure 5.

Supplementary Table 6. Haplogroups and frequencies (%) observed in FE and RC groups

FE groups		RC groups					
Sample size = 360		Sample size =	177	112	70	64	423
Haplogroup	Total	Haplogroup	Luzon	Visayas	Mindanao	Undefined	Total
B4a1	0.28	B4a	0.56		1.43		0.47
B4a1a	7.78	B4a1a	11.3	9.82	10	12.5	10.87
B4a1a1a	0.28	B4a1a1			1.43	1.56	0.47
B4a1a3	0.83	B4b1	7.34	7.14	7.14	9.38	7.57
B4a1a4	0.56	B4c1b	5.65	6.25		6.25	4.96
B4a1a5	1.11						
B4b1a	1.39						
B4b1a2	6.94						
B4b1a2b	1.39						
B4b1a2d	1.11						
B4c	0.28						
B4c1b2a2	3.89						
B5	0.28	B5a	1.13			1.56	0.71
B5a1d	0.28	B5b	10.17	4.46	4.29	10.94	7.8
B5a2a	0.28	B7	0.56				0.24
B5b1c	7.50						
D5b1c	1.39	D*	0.56				0.24
D6a	0.83	D5b	0.56			1.56	0.47
D6c	1.11	D6	1.13	0.89	2.86	1.56	1.42
E1a1a	4.44	E1		0.89			0.24
E1a1a1	5.00	E1a1a	7.91	16.07	14.29	7.81	11.11
E2a	0.83	E1a2				1.56	0.24
E2a1	0.28	E1b	2.82		1.43		1.42
E2b1	1.11	E2*	1.13	4.46	5.71	3.13	3.07
		E2b	0.56				0.24
F1a3a	1.94	F1a1a	0.56				0.24
F1a4a	2.78	F1a3	3.39	2.68	1.43	4.69	3.07
F3b	2.22	F1a4	3.39	6.25	2.86	4.69	4.26
F3b1	0.56	F3b	2.82	0.89	2.86		1.89
		F4b	1.13				0.47
M	0.83	M*	2.26	1.79	4.29	1.56	2.36
M17c	0.56	M21a		0.89		1.56	0.47
M21a	0.28	M21c1a	0.56				0.24
M50	0.28	M17c1a	2.82				1.18
M52'58	1.94	M71		0.89	1.43		0.47
M52a	1.67	M72	0.56				0.24
M74b1	0.83	M73a		1.79			0.47
M7b1'2'4'5'6'7'8-(C16192T)	0.28	M7a	0.56				0.24
M7b3a	1.11	M7b			1.43		0.24
M7c3c	16.11	M7b1	1.69	1.79			1.18
M7c3c1	0.28	M7b3	2.82	5.36	2.86	1.56	3.31
M7c3-T16295C!	1.39	M7c	1.13	1.79	1.43		1.18
M13'46'61-T16362C	0.28	M7c3c	12.99	7.14	12.86	12.5	11.35
		M8a	0.56				0.24
N11	0.28	N*		0.89			0.24
N11b	3.33	N22			1.43		0.24
P	2.50	P8	1.13	0.89		1.56	0.95
P1d1	0.28	P10		0.89	1.43		0.47
P2'10	0.83						
Q1'2	0.28						
R	0.28	R24	0.56	8.04	2.86	1.56	3.07
R9b1a1	0.28	R9c	4.52	5.36	5.71	4.69	4.96
R9c1	0.83	R9e			1.43	1.56	0.47
R9c1a	1.39						
R-T16189C!	0.56						
Y2a	0.28	Y2	4.52	2.68	7.14	6.25	4.73
Y2a1	5.56						
		Z4	0.56				0.24

FE group total, as in 'Philippines' column, Table 2 of main manuscript  
RC group data from Tabbada *et al.* 2010.



Supplementary Table 9. Haplotypes (Ht) shared between FE groups and reference data set groups

Ht	Ivatan	Ifugao	Kankanaey	Ibaloi	Kalangoya	Bugkalot	AetaZ	Agtal	Abaknon	Surigaonon	Mamanwa	Manobo	Maranao	Taiwan	Indonesia	Near Oceania
1	0	0	0	0	0	1	0	0	5	1	5	2	1	1	6	0
2	0	0	0	2	1	3	0	0	2	0	0	0	0	0	1	0
3	1	4	4	5	4	7	10	6	1	0	1	5	0	1	4	0
4	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0
5	0	0	2	1	1	0	0	0	1	1	1	0	0	1	2	1

Ht: haplotype numbers are arbitrary assignments; Indonesia includes counts for Besemah and Semende

Supplementary Table 10. Haplogroup diversity indices and coalescent times.

Haplogroup Group	Diversity Indices										Coalescent time		
	n	nHg	Hgf	nHt	HtD	SE	MPD	SE	sHt	nsHt	HPD lower	BE	HPD upper
<b>B4a1a</b>													
Taiwan	27	10	0.37	10	1.00	0.04	4.33	2.34	1	1	5,672	10,264	15,650
Philippines	360	38	0.11	20	0.94	0.02	3.44	1.80	1	7	7,015	11,446	16,478
Indonesia	113	25	0.22	18	0.95	0.03	3.51	1.85	1	2	6,907	11,313	16,369
Near Oceania	67	32	0.48	24	0.95	0.03	2.89	1.56	1	1	6,160	10,572	15,613
Remote Oceania	23	16	0.70	10	0.93	0.04	2.41	1.38	0	0	4,761	7,131	9,927
<b>E1a1a</b>													
Taiwan	27	3	0.11	3	1.00	0.27	4.67	3.13	1	1	2,774	8,211	14,579
Philippines	360	33	0.09	12	0.77	0.07	1.44	0.90	1	15	3,748	8,353	13,901
Indonesia	113	11	0.10	6	0.73	0.14	1.64	1.04	1	6	3,306	8,255	13,842
<b>M7c3c</b>													
Philippines	360	59	0.16	19	0.72	0.06	1.76	1.03	1	34	5,261	10,091	15,966
Indonesia	113	13	0.12	9	0.91	0.07	1.92	1.17	1	4	4,396	8,974	14,258

Diversity indices: based on complete mtDNA sequence data

Coalescent time: based on coding region data

n: sample size

nHg: number of samples in haplogroup

Hgf: haplogroup frequency

nHt: number of haplotypes

HtD: haplotype diversity

MPD: mean pairwise differences

SE: standard error

sHt: shared haplotype

nsHt: number of individuals that share haplotype

BE: Bayesian estimate

HPD: 95% highest posterior density or credible intervals (CI)

Indonesia: includes Besemah and Semende

B4a1a: includes sublineages B4a1a1 to B4a1a5

E1a1a: includes sublineage E1a1a1

M7c3c: includes sublineage M7c3c1