

**Supplementary table 2.** Genotypes at the rs17822931 site and frequencies of alleles “A” and  $\Delta 27$  in *ABCC11* and of dry cerumen among different human populations

Ethnic groups	Present study						Previous study		
	No. of individuals with genotype			Number of individuals genotyped	Frequency of allele “A”	Frequency of allele $\Delta 27$	Tribes or inhabitants examined [Sources of DNA]	Frequency of dry type cerumen	Reference
	AA (Frequency)	GA	GG						
Korean	99 (1.000)	0	0	99	1.000	0/190	Taegu city inhabitants [6]	0.924	[15]
Yukaghir							Paleo-Siberian	1.000	[23]
Nivkh							Sahalin Island	0.968	[23]
Chinese	74 (1.000)	0	0	74	1.000		Northern Han Chinese (Shanxi) [1]	0.958	[15]
	110 (0.924)	9	0	119	0.962		Northern Han Chinese (Jingsu) [1]		
	42 (0.808)	10	0	52	0.904	0/104	Han Chinese from multi-regions [7]		
	93 (0.788)	21	4	118	0.877		Southern Han Chinese (Fujian) [1]		
	76 (0.685)	33	2	111	0.833		Southern Han Chinese (Guangdong) [1]		
	80 (0.777)	9	2	103	0.820		Southern Han Chinese (Hunan) [1]		
							Southern Chinese (Hoklo and Hakka)	0.740	[15]
						Li Chinese in Hainan Island	0.446	[15]	
Tibetan								0.957	[20]
Tungus								0.906	[15]
Mongolian	126 (0.759)	36	4	166	0.867	0/252	Khalkha tribe [2][8]	0.879	[15]
Japanese							From all Japan	0.837	[15]
	87 (0.690)	35*	4	126	0.829	1/668	Nagasaki inhabitants [6]		
	30 (0.517)	25	3	58	0.733		Propel of Okinawa [9]	0.663	[15]
	13 (0.433)	15	2	30	0.683	0/60	Yonakuni Islander [3]	0.671	[15]
							Ainu in Shiraoi village, Hokkaido	0.133	[15]
	31 (0.534)	23	2	58	0.733		Ainu in Nibutani village, Hokkaido [2][6]		
Yakut							Eastern Siberia	0.786	[23]
Altai people							The Altai	0.670	[23]
Vietnamese	82 (0.536)	60	11	153	0.732		from multi-regions of Vietnam [5]		
Dravidian	27 (0.540)	17	6	50	0.710	0/100	Inhabitants of Tamil Nadu in India [2]		
Native Canadian								0.570	[18]
Inuit							Alaska in USA	0.515	[23]
Alute								0.486	[23]
Kirghiz							Murgab	0.409	[23]
Thai	25 (0.521)	17	6	48	0.698		Northern Thai (Lahu tribe) [2]		
	13 (0.271)	25	10	48	0.531		Northern Thai (Shan tribe) [2]		
	27 (0.563)	18	3	48	0.750		Northern Thai (Lisu tribe) [2]		

	66 (0.516)	51	11	128	0.457		Mae-sot Thai (Karen tribe) [2][5]		
	35 (0.729)	10	3	48	0.833		Northern Thai (Hmong tribe) [2]		
	25 (0.510)	18	6	49	0.694		Northern Thai (Akha tribe) [2]		
	24 (0.421)	24	9	57	0.632		Northern Thai (Mlabri tribe) [2]		
	1 (0.020)	10	40	51	0.118		Southern Thai (Urak Lawoi tribe) [2]		
	1 (0.038)	13	12	26	0.288	0/52	Southern Thai (Sakai tribe) [2]		
	31 (0.633)	10	8	49	0.735	1/100	Central Thai in Bangkok [2]		
Taiwanese							From all Taiwan	0.286	[22]
	22 (0.423)	24	6	52	0.654		Taiwan Aborigine (Yami) [2]		
	12 (0.235)	24	15	51	0.471		Taiwan Aborigine (Ami) [2]	0.252	[15]
Vedda	7 (0.350)	12	1	20	0.650		Native people in Sri Lanka [2]		
Indonesian	12 (0.293)	23	9	41	0.573		Dayak tribe in Kalimantan [2]		
	17 (0.347)	20	12	49	0.551		Toraja tribe in Sulawesi [2]		
	18 (0.300)	25	17	60	0.508		Floresian [2]		
	10 (0.196)	29	12	51	0.480		Bugis tribe in Sulawesi [2]		
	9 (0.180)	16	25	50	0.340		Sumbanese [2]		
	0 (0.000)	2	31	33	0.030		Dani tribe in Irian Jaya [2]		
Malaysian	24 (0.393)	27	10	61	0.566	0/132	Sabah in North Borneo [4]		
	8 (0.113)	40	23	71	0.394	0/138	Bentong tribe [4]	0.343	[15][19]
							Oran Asli, Aborigine	0.068	[19]
Native North American	6 (0.300)	8†	6	20	0.500	2/40	[10]	0.362	[17]
Philippino	11 (0.229)	23	14	48	0.469		Palawan [2]		
Easter Islander	4 (0.138)	18	7	29	0.448		[3]		
Bolivian	5 (0.167)	14	11	30	0.400	9/60	Aymara inhabitants [3]		
Kazakh	6 (0.200)	11	13	30	0.383		Aktyubinsk	0.405	[23]
Native Paraguayan	2 (0.040)	34	14	50	0.380	0/98	Ayoreos village [4]		
	0 (0.000)	14	61	75	0.093	0/150	Sanapana village [4]		
Micronesian							Ponape, Truk, and Yap	0.371	[15]
Turkoman								0.333	[19]
Bashkir							Uzunlarovo and Assy	0.380	[23]
Melanesian								0.278	[15]
Turkish								0.276	[19]
Aryo-Indian							All parts of India	0.229	[19]
Afghan people								0.154	[19]
Pamiri								0.136	[23]
Finnic							Mariy	0.093	[23]
Estonian							Tallinn	0.058	[23]
Latvian							Riga	0.036	[23]
Russian	5 (0.045)	45	62	112	0.246	0/208	[11]		
Solomon Islander	2 (0.323)	25	35	62	0.234	0/122	[4]		

Pacific islander	1 (0.143)	1	5	7	0.214	0/14	[13]		
French	1 (0.083)	3	8	12	0.208	0/24	From the CEPH families [14]		
Andes people	1 (0.100)	2	7	10	0.200	1/20	[13]		
Hungarian	0 (0.000)	4	6	10	0.200	0/20	[13]		
Jew	0 (0.000)	4	6	10	0.200	0/20	Ashkenazi [13]		
Ukrainian	0 (0.000)	15	27	42	0.179	0/84	[6]		
Australian Aborigine								0.032	[22]
Lithuanian							Vilnius inhabitants	0.031	[23]
German								0.031	[15]
Papuan	1 (0.026)	11	26	38	0.171	0/68	Papua New Guinea [2]		
Melanesian							Waffa, New Guinea	0.000	[22]
Vanuatu islander	1 (0.022)	8	36	45	0.111		Aneityum Island [4]		
	0 (0.000)	9	38	47	0.096		Santo Island [4]		
						0/266	Any and Gau islanders [4]		
American of European origin	1 (0.012)	16	65	82	0.110	0/164	from the CEPH families without the French and Venezuelans [14]	0.013	[17]
Venezuelan	0 (0.000)	3	11	14	0.107	0/28	Ye'Kuana village [3]		
	0 (0.000)	0	18	18	0.000	0/64	Sanuma [3]		
Iberian	0 (0.000)	2	8	10	0.100		[13]		
Columbian	0 (0.000)	2	15	17	0.059	0/34	[3]		
African	0 (0.000)	1	10	11	0.047	0/22	from various sub-Saharan nations [12]		
American of African origin	0 (0.000)	0	10	10	0.000	0/20	[13]	0.000	[17]

[1] Collection by N. Saitou; [2] Collection by T. Ishida; [3] Collection by S. Sonoda; [4] Collection by K. Hirayama; [5] Collection by N. Natsume; [6] Collection by N. Niikawa; [7] Collection by D-S. Liang; [8] Collection by A. Garidkhuu; [9] Collection by T. Kaname; [10] Collection by R. Komaki; [11] Collection by V. A. Saenko; [12] Collection by C. K. Mapendano; [13] from the Coriell Institute; [14] from the CEPH families;

[15] Matsunaga E., *Ann Hum Genet.* 25,273-286, 1962; [16] Norakmal and Tan, *Jpn. J. Hum. Genet.* 24, 119-121, 1979; [17] Petrakis et al., 1969; [18] Alfred et al., *Am. J. Phys. Anthropol.* 32, 329-338, 1970; [19] Petrakis, *Science* 173, 347-349, 1971; [20] Patel, *Am. J. Phys. Anthropol.*, 35,755-756, 1973; [21] Bass and Jackson, *Am. J. Phys. Anthropol.*, 47, 209-210, 1977; [22] Omoto, *Israel J. Med. Sci.*, 9, 1195-1215, 1973; [23] Spitsyn and Afanasèva, *Genetiks (Russian)* 25, 1854-1860, 1989.

\*One exceptional case of dry cerumen who has  $\Delta 27$  in *ABCC11* is included.