

Supplemental Table S4. *CYP2C19* minor allele frequencies

HGDP-CEPH Grouping ¹	Ethnicity	PMID ²	CYP2C19 minor allele frequency (%) ³								Total Individuals	Total Alleles	CYP2C19 minor alleles reported ³								
			*2	*3	*4	*5	*6	*7	*8	*17 ⁴			*2	*3	*4	*5	*6	*7	*8	*17 ⁴	
Africa	African	20173083	19.2	0.2	0	-	0	-	0	-	250	500	96	1	0	-	0	-	0	-	
Africa	African American	16815315	18.2	0.8	-	-	-	-	-	-	236	472	86	4	-	-	-	-	-	-	
Africa	African-American	9110363	25	0	-	-	-	-	-	-	108	216	54	0	-	-	-	-	-	-	
Africa	African-American	19169185	18.3	0.1	-	-	-	-	-	-	441	882	161	1	-	-	-	-	-	-	
Africa	African-American	8873222	19.1	-	-	-	-	-	-	-	76	152	29	-	-	-	-	-	-	-	
Africa	African-American	8823231	16.0	-	-	-	-	-	-	-	100	200	32	-	-	-	-	-	-	-	
Africa	Beninese	14616425	13	-	-	-	-	-	-	-	111	222	29	-	-	-	-	-	-	-	
Africa	Black	21247447	19.9	0	-	-	0	-	0	-	289	578	115	0	1	-	0	-	0	120	
Africa	Cape Mixed Ancestry	20712527	17	7	-	-	-	-	-	14	75	150	26	11	-	-	-	-	-	21	
Africa	Egyptian	12047484	10.9	0.2	-	-	-	-	-	-	247	494	54	1	-	-	-	-	-	-	
Africa	Ethiopian	9014201	14	2	-	-	-	-	-	-	114	228	32	5	-	-	-	-	-	-	
Africa	Ethiopian	12142727	12.1	2.9	-	-	-	-	-	-	70	140	17	4	-	-	-	-	-	-	
Africa	Ethiopian	16413245	-	-	-	-	-	-	-	13.2	190	380	-	-	-	-	-	-	-	50	
Africa	Ghanaian	19954515	5.9	0	-	-	-	-	-	-	169	338	20	0	-	-	-	-	-	-	
Africa	Nigerian	20831548	15.5	0	-	-	-	-	-	-	158	316	49	0	-	-	-	-	-	-	
Africa	South African (Venda)	11372584	21.7	0	-	-	-	-	-	-	76	152	33	0	-	-	-	-	-	-	
Africa	Tanzanian	10510152	10	0	-	-	-	-	-	-	195	390	39	0	-	-	-	-	-	-	
Africa	Tanzanian	9797796	17.9	0.6	-	-	-	-	-	-	251	502	90	3	-	-	-	-	-	-	
Africa	Tanzanian	11372584	18.0	0.3	-	-	-	-	-	-	192	384	69	1	-	-	-	-	-	-	
Africa	Tunisian	18423013	10.5	-	-	-	-	-	-	-	544	1088	114	-	-	-	-	-	-	-	
Africa	Ugandan	19002442	12.6	1.0	-	-	-	-	-	17.2	99	198	25	2	-	-	-	-	-	34	
Africa	Xhosa	20712527	21	0	-	-	-	-	-	10	100	200	42	0	-	-	-	-	-	20	
Africa	Zimbabwean Shona	7781265	4.2	-	-	-	-	-	-	-	84	168	7	-	-	-	-	-	-	-	
Americas	Bolivian	15776277	7.8	0.1	-	-	-	-	-	-	778	1556	121	1	-	-	-	-	-	-	
Americas	Brazilian (mixed)	21247447	16.1	0	0.3	0	-	-	-	19.2	1212	2424	390	0	7	0	-	-	-	466	
Americas	Brazilian (mixed)	21173785	13.2	-	-	-	-	-	-	-	1034	2068	273	1	-	-	-	-	-	358	
Americas	Columbian Mestizo	17623107	8.7	0	0	0	0	-	0	-	189	378	33	0	0	0	0	-	0	-	
Americas	Mexican Americans	16815315	9.7	0.1	-	-	-	-	-	-	346	692	67	-	-	-	-	-	-	-	
Americas	Native Canadian Indian	9797794	8.8	0	-	-	-	-	-	-	159	318	28	0	-	-	-	-	-	-	
Americas	White Hispanic	21247447	12.6	0	0.2	-	0	-	0.2	14.0	242	484	61	0	1	-	0	-	1	68	
East Asia	Bai Chinese	9103550	25.7	5.2	-	0.3	-	-	-	-	202	404	104	21	-	1	-	-	-	-	

East Asia	Burmese	16946555	30	4	-	-	-	-	-	-	127	254	76	10	-	-	-	-	-	-
East Asia	Chinese	15327595	23.1	4.6	-	-	-	-	-	-	54	108	25	5	-	-	-	-	-	-
East Asia	Chinese	18231117	29.7	3.5	0	0	-	-	-	0.5	101	202	60	7	0	0	-	-	-	1
East Asia	Chinese	19636337	25.5	2	0.5	-	-	-	-	3	100	200	51	4	4	-	-	-	-	6
East Asia	Chinese	20173083	30.7	4.5	0	-	0	-	0	-	398	796	244	36	0	-	0	-	0	-
East Asia	Chinese	16855453	30.2	6.6	-	-	-	-	-	-	53	106	32	7	-	-	-	-	-	-
East Asia	Chinese	17450472	29.7	5.9	-	-	-	-	-	-	59	118	35	7	-	-	-	-	-	-
East Asia	Chinese	11686476	44.2	4.5	-	-	-	-	-	-	121	242	107	11	-	-	-	-	-	-
East Asia	Chinese	19745563	24.8	7.0	-	-	-	-	-	-	107	214	53	15	-	-	-	-	-	-
East Asia	Chinese	20831535	30.6	3.7	-	-	-	-	-	-	204	408	125	15	-	-	-	-	-	-
East Asia	Chinese	19756559	30.7	7.1	-	-	-	-	-	-	287	574	176	41	-	-	-	-	-	-
East Asia	Chinese	21163112	23.1	-	-	-	-	-	-	-	722	1444	334	-	-	-	-	-	-	-
East Asia	Chinese	15301728	35	7	-	-	-	-	-	-	70	140	49	10	-	-	-	-	-	-
East Asia	Dai Chinese	11956668	30.3	3.4	-	-	-	-	-	-	386	772	234	26	-	-	-	-	-	-
East Asia	East Asian	20173083	32.4	8	0	-	0	-	0	-	246	492	159	39	0	-	0	-	0	-
East Asia	East Asian	16815315	28.9	9.6	-	-	-	-	-	-	161	322	93	31	-	-	-	-	-	-
East Asia	Han Chinese	18518848	24.7	3.3	-	-	-	-	-	1.6	400	800	198	26	-	-	-	-	-	13
East Asia	Han Chinese	19444287	29.1	7.3	-	-	-	-	-	-	103	206	60	15	-	-	-	-	-	-
East Asia	Han Chinese	15612662	34.1	8.2	-	-	-	-	-	-	104	208	71	17	-	-	-	-	-	-
East Asia	Han Chinese	9103550	36.6	7.4	-	-	-	-	-	-	101	202	74	15	-	-	-	-	-	-
East Asia	Han Chinese	10585366	30.7	3.8	0.4	0	-	-	-	-	119	238	73	9	9	0	-	-	-	-
East Asia	Japanese	19881258	14.5	8.2	-	-	-	-	-	-	55	110	16	9	-	-	-	-	-	-
East Asia	Japanese	20173083	30.3	13.1	0	-	0.1	-	0	-	500	1000	303	131	0	-	-	-	0	-
East Asia	Japanese	16141610	26.7	12.8	-	-	-	-	-	-	253	506	135	65	-	-	-	-	-	4
East Asia	Japanese	9867757	28.2	6.5	-	-	-	-	-	-	62	124	35	8	-	-	-	-	-	-
East Asia	Japanese	16595916	28.7	8.3	-	-	-	-	-	-	54	108	31	9	-	-	-	-	-	-
East Asia	Japanese	20528170	32.4	10.8	-	-	-	-	-	-	51	102	33	11	-	-	-	-	-	-
East Asia	Japanese	16338280	34.1	11.1	-	-	-	-	-	-	63	126	43	14	-	-	-	-	-	-
East Asia	Japanese	10579481	25.5	6.5	-	-	-	-	-	-	108	216	55	14	-	-	-	-	-	-
East Asia	Japanese	12386647	30.0	11.5	-	-	-	-	-	-	65	130	39	15	-	-	-	-	-	-
East Asia	Japanese	11477314	29.4	11.3	-	-	-	-	-	-	80	160	47	18	-	-	-	-	-	-
East Asia	Japanese	19259653	24.6	9.3	-	-	-	-	-	-	124	248	61	23	-	-	-	-	-	-
East Asia	Japanese	17377957	20.5	17.1	-	-	-	-	-	-	73	146	30	25	-	-	-	-	-	-
East Asia	Japanese	11434512	28.2	12.9	-	-	-	-	-	-	101	202	57	26	-	-	-	-	-	-
East Asia	Japanese	11686476	26.0	14.6	-	-	-	-	-	-	96	192	50	28	-	-	-	-	-	-
East Asia	Japanese	9860067	24.6	10.4	-	-	-	-	-	-	134	268	66	28	-	-	-	-	-	-
East Asia	Japanese	15952098	31.6	11.3	-	-	-	-	-	-	141	282	89	32	-	-	-	-	-	-
East Asia	Japanese	15710002	24.0	11.0	-	-	-	-	-	-	173	346	83	38	-	-	-	-	-	-

East Asia	Japanese	9511186	23.4	11.1	-	-	-	-	-	-	175	350	82	39	-	-	-	-	-	-
East Asia	Japanese	21168310	30.8	10.0	-	-	-	-	-	-	201	402	124	40	-	-	-	-	-	-
East Asia	Japanese	8988068	28.8	12.4	-	-	-	-	-	-	186	372	107	46	-	-	-	-	-	-
East Asia	Japanese	14568772	27.3	12.0	-	-	-	-	-	-	196	392	107	47	-	-	-	-	-	-
East Asia	Japanese	19156902	31.7	13.5	-	-	-	-	-	-	178	356	113	48	-	-	-	-	-	-
East Asia	Japanese	16307177	29.6	12.8	-	-	-	-	-	-	203	406	120	52	-	-	-	-	-	-
East Asia	Japanese	11240980	31.0	10.9	-	-	-	-	-	-	261	522	162	57	-	-	-	-	-	-
East Asia	Japanese	17215846	27.8	12.3	-	-	-	-	-	-	300	600	167	74	-	-	-	-	-	-
East Asia	Japanese	15017629	28.7	11.6	-	-	-	-	-	-	350	700	201	81	-	-	-	-	-	-
East Asia	Japanese	17357148	27.7	14.3	-	-	-	-	-	-	352	704	195	101	-	-	-	-	-	-
East Asia	Japanese	16268979	27.6	13.1	-	-	-	-	-	-	426	852	235	112	-	-	-	-	-	-
East Asia	Japanese	17052843	31.1	14.6	-	-	-	-	-	-	487	974	303	142	-	-	-	-	-	-
East Asia	Japanese	16338278	15.4	-	-	-	-	-	-	-	205	410	63	-	-	-	-	-	-	-
East Asia	Japanese	21102498	28.4	-	-	-	-	-	-	-	58	116	33	-	-	-	-	-	-	-
East Asia	Japanese	9110363	23	10.4	-	-	-	-	-	-	53	106	24	11	-	-	-	-	-	-
East Asia	Japanese	8807668	27.4	10.8	-	-	-	-	-	-	217	434	119	47	-	-	-	-	-	-
East Asia	Japanese	9631918	35	11	-	-	-	-	-	-	140	280	98	31	-	-	-	-	-	-
East Asia	Japanese	8890945	21.9	11.7	-	-	-	-	-	-	233	466	102	55	-	-	-	-	-	-
East Asia	Japanese	17502835	31.1	12.6	-	-	-	-	-	-	103	206	64	26	-	-	-	-	-	-
East Asia	Japanese	11763000	27.5	12.8	-	-	-	-	-	-	51	102	28	13	-	-	-	-	-	-
East Asia	Japanese	19696793	26	13	-	-	-	-	-	-	219	438	114	57	-	-	-	-	-	-
East Asia	Japanese	15691505	32.7	13.7	-	-	-	-	-	-	139	278	91	38	-	-	-	-	-	-
East Asia	Japanese	19696793	31	18	-	-	-	-	-	-	184	368	114	66	-	-	-	-	-	-
East Asia	Japanese	18241287	-	-	-	-	-	-	-	1.3	265	530	-	-	-	-	-	-	-	7
East Asia	Japanese (1st generation)	18231117	26.2	10	0	0	-	-	-	1	105	210	55	21	0	0	-	-	-	2
East Asia	Japanese (3rd generation)	18231117	33.1	13.3	0	0	-	-	-	1.2	84	168	56	22	0	0	-	-	-	2
East Asia	Japanese (native)	18231117	34.5	9	0	0	-	-	-	0.5	100	200	69	18	0	0	-	-	-	1
East Asia	Japanese (mixed descendents)	19882083	25.9	11.9	-	-	-	-	-	-	139	278	72	33	-	-	-	-	-	-
East Asia	Karen	16946555	28	1	-	-	-	-	-	-	131	262	73	-	-	-	-	-	-	-
East Asia	Kazakh Chinese	19444287	15.4	7.9	-	-	-	-	-	-	107	214	33	17	-	-	-	-	-	-
East Asia	Korean	18231117	25	8	0	0	-	-	-	1.5	100	200	50	16	0	0	-	-	-	3
East Asia	Korean	20499227	16	-	-	-	-	-	-	20	150	300	48	-	-	-	-	-	-	60
East Asia	Korean	20173083	28.6	7.4	0	-	0	-	0	-	200	400	114	30	0	-	0	-	0	-
East Asia	Korean	17424941	31.1	7.6	-	-	-	-	-	-	66	132	41	10	-	-	-	-	-	-
East Asia	Korean	19220726	34.9	6.6	-	-	-	-	-	-	136	272	95	18	-	-	-	-	-	-
East Asia	Korean	17562299	21.1	9.8	-	-	-	-	-	-	97	194	41	19	-	-	-	-	-	-
East Asia	Korean	20650435	31.0	8.7	-	-	-	-	-	-	126	252	78	22	-	-	-	-	-	-
East Asia	Korean	20724801	31.3	6.5	-	-	-	-	-	-	176	352	110	23	-	-	-	-	-	-

East Asia	Korean	9014204	20.9	11.7	-	-	-	-	-	-	103	206	43	24	-	-	-	-	-
East Asia	Korean	14695703	26.7	10.3	-	-	-	-	-	-	116	232	62	24	-	-	-	-	-
East Asia	Korean	20823393	34.0	9.7	-	-	-	-	-	-	134	268	91	26	-	-	-	-	-
East Asia	Korean	21075428	30.3	6.8	-	-	-	-	-	-	190	380	115	26	-	-	-	-	-
East Asia	Korean	19891553	-	8.8	-	-	-	-	-	-	226	452	-	40	-	-	-	-	-
East Asia	Korean	18637061	26.0	8.7	-	-	-	-	-	-	327	654	170	57	-	-	-	-	-
East Asia	Korean	17667801	28.2	7.6	-	-	-	-	-	-	377	754	213	57	-	-	-	-	-
East Asia	Korean	19576320	27.3	9.3	-	-	-	-	-	-	387	774	211	72	-	-	-	-	-
East Asia	Korean	20559522	29.9	9.5	-	-	-	-	-	-	463	926	277	88	-	-	-	-	-
East Asia	Korean	21054462	28.4	10.1	-	-	-	-	-	1.5	271	542	154	55	-	-	-	-	8
East Asia	Li Chinese	17439410	35.8	3.0	-	-	-	-	-	-	165	330	118	10	-	-	-	-	-
East Asia	Malay	15327595	30.9	10.3	-	-	-	-	-	-	68	136	42	14	-	-	-	-	-
East Asia	Mongolian Chinese	20857895	24.3	4.3	-	-	-	-	-	-	280	560	136	24	-	-	-	-	-
East Asia	Northeastern Thai	11927837	26.6	2.3	-	-	-	-	-	-	107	214	57	5	-	-	-	-	-
East Asia	Southeast Asian	16815315	31.2	5.7	-	-	-	-	-	-	80	160	50	9	-	-	-	-	-
East Asia	Taiwanese	20350136	32	2.5	-	-	-	-	-	0.5	100	200	64	5	-	-	-	-	1
East Asia	Taiwanese	16924387	32.2	5.0	-	-	-	-	-	-	180	360	116	18	-	-	-	-	-
East Asia	Taiwanese	20457439	57.9	20.0	-	-	-	-	-	-	95	190	110	38	-	-	-	-	-
East Asia	Taiwanese	15385837	34	5.3	-	-	-	-	-	-	169	338	115	18	-	-	-	-	-
East Asia	Taiwanese	9110363	32	5.5	-	-	-	-	-	-	118	236	76	13	-	-	-	-	-
East Asia	Thai	11686476	34.7	4.5	-	-	-	-	-	-	121	242	84	11	-	-	-	-	-
East Asia	Thai	20358205	24.6	-	-	-	-	-	-	-	71	142	35	-	-	-	-	-	-
East Asia	Thai	16946555	29	3	-	-	-	-	-	-	774	1548	449	46	-	-	-	-	-
East Asia	Vietnamese	18979093	30.6	6.3	-	-	-	-	-	-	72	144	44	9	-	-	-	-	-
East Asia	Vietnamese	17667801	26.4	4.8	-	-	-	-	-	-	165	330	87	16	-	-	-	-	-
East Asia	Vietnamese	11686476	26.7	13.3	-	-	-	-	-	-	90	180	48	24	-	-	-	-	-
Europe	Ashkenazi Jewish	18240905	15.2	-	1.8	-	-	-	-	-	250	500	76	-	9	-	-	-	-
Europe	Belgian	14616425	9.1	-	-	-	-	-	-	-	121	242	22	-	-	-	-	-	-
Europe	Bosnian	21108610	16.9	-	-	-	-	-	-	-	77	154	26	-	-	-	-	-	-
Europe	Bulgarian	18021343	13.5	-	-	-	-	-	-	-	96	192	26	-	-	-	-	-	-
Europe	Caucasian	18231117	13.6	0	0.3	0	-	-	-	20.1	143	286	39	0	1	0	-	-	57
Europe	Caucasian	19463375	13.3	-	2.5	-	-	-	-	20.8	60	120	16	-	3	-	-	-	25
Europe	Caucasian	18521743	-	-	-	-	-	-	-	23.1	1989	3978	-	-	-	-	-	-	919
Europe	Caucasian	20173083	15	0.1	0.1	-	0.1	-	0.1	-	454	908	136	1	1	-	-	0	-
Europe	Caucasian	12823155	14.2	0	0	-	-	-	-	-	60	120	17	0	0	-	-	-	-
Europe	Caucasian	15590749	16.9	0	0	-	-	-	-	-	59	118	20	0	0	-	-	-	-
Europe	Caucasian	20857895	14.0	0	-	-	-	-	-	-	203	406	57	0	-	-	-	-	-

Europe	Caucasian	21047200	17.9	0	-	-	-	-	-	-	215	430	77	0	-	-	-	-	-	-
Europe	Caucasian	21108329	15.4	0.1	-	-	-	-	-	-	344	688	106	1	-	-	-	-	-	-
Europe	Caucasian	20064729	15.7	0.5	-	-	-	-	-	-	289	578	91	3	-	-	-	-	-	-
Europe	Caucasian	19337788	14.5	6.5	-	-	-	-	-	-	186	372	54	24	-	-	-	-	-	-
Europe	Caucasian	18496131	16.5	-	-	-	-	-	-	-	124	248	41	-	-	-	-	-	-	-
Europe	Caucasian	20179710	15.2	-	-	-	-	-	-	-	230	460	70	-	-	-	-	-	-	-
Europe	Caucasian	18482659	16.4	-	-	-	-	-	-	-	797	1594	262	-	-	-	-	-	-	-
Europe	Caucasian	11037802	14.0	-	-	-	-	-	-	-	952	1904	267	-	-	-	-	-	-	-
Europe	Caucasian	18521743	14.5	-	-	-	-	-	-	-	1960	3920	570	-	-	-	-	-	-	-
Europe	Caucasian	16815315	12.7	0.9	-	-	-	-	-	-	273	546	69	5	-	-	-	-	-	-
Europe	Caucasian	19169185	14.2	0	-	-	-	-	-	-	3774	7548	1072	0	-	-	-	-	-	-
Europe	Central European	19581389	8.5	-	-	-	-	-	-	33.8	71	142	12	-	-	-	-	-	-	48
Europe	Croatian	12950145	15.0	-	-	-	-	-	-	-	200	400	60	-	-	-	-	-	-	-
Europe	Danish	20665013	15.0	-	-	-	-	-	-	20.1	276	552	83	-	-	-	-	-	-	111
Europe	Danish	16044105	13.8	0	-	-	-	-	-	-	69	138	19	0	-	-	-	-	-	-
Europe	Danish	19192051	13.0	0	-	-	-	-	-	-	300	600	78	0	-	-	-	-	-	-
Europe	Danish	9754988	16.5	0.0	-	-	-	-	-	-	303	606	100	0	-	-	-	-	-	-
Europe	Danish	20684753	10.9	-	-	-	-	-	-	-	339	678	74	-	-	-	-	-	-	-
Europe	Dutch	20531370	13.3	-	-	-	-	-	-	22.1	678	1356	181	-	-	-	-	-	-	299
Europe	Dutch	19884907	15.4	-	-	-	-	-	-	24.4	178	356	55	-	-	-	-	-	-	87
Europe	Dutch	19934793	16.8	0.2	-	-	-	-	-	-	428	856	144	2	-	-	-	-	-	-
Europe	Dutch	11829201	12.9	0.2	-	-	-	-	-	-	765	1530	198	3	-	-	-	-	-	-
Europe	Dutch	18854779	17.7	-	-	-	-	-	-	-	113	226	40	-	-	-	-	-	-	-
Europe	Dutch	17667959	15	-	-	-	-	-	-	-	181	362	54	-	-	-	-	-	-	-
Europe	English	12419832	13.4	-	-	-	-	-	-	-	1082	2164	291	-	-	-	-	-	-	-
Europe	European	9435198	13	0.3	0.6	-	-	-	-	-	173	346	45	1	2	-	-	-	-	-
Europe	European-American	9110363	13	0	-	-	-	-	-	-	105	210	27	0	-	-	-	-	-	-
Europe	Faroese	20665013	18.6	-	-	-	-	-	-	15.4	311	622	116	-	-	-	-	-	-	96
Europe	Faroese	16025294	18.8	0	-	-	-	-	-	-	312	624	117	0	-	-	-	-	-	-
Europe	Finnish	16024198	16.4	0	-	-	-	-	-	-	177	354	58	0	-	-	-	-	-	-
Europe	Finnish	17635176	17.6	-	-	-	-	-	-	-	449	898	158	-	-	-	-	-	-	-
Europe	French	19496924	-	-	0.7	0	0.1	-	-	20.0	598	1196	-	-	8	0	1	-	-	239
Europe	French	18205890	18.4	-	-	-	-	-	-	-	359	718	132	-	-	-	-	-	-	-
Europe	French	20708365	17.6	-	-	-	-	-	-	-	411	822	145	-	-	-	-	-	-	-
Europe	French	18394438	15.7	-	-	-	-	-	-	-	603	1206	189	-	-	-	-	-	-	-
Europe	German	20492469	13.5	-	-	-	-	-	-	21.3	986	1972	267	-	-	-	-	-	-	421
Europe	German	20083681	-	-	-	-	-	-	-	22.9	1524	3048	-	-	-	-	-	-	-	698
Europe	German	18781853	15.1	0.0	-	-	-	-	-	25.7	423	846	128	0	-	-	-	-	-	217

Europe	German	20826260	14.4	-	-	-	-	-	-	-	928	1856	268	-	-	-	-	-	-	417
Europe	German	16116487	15.8	0	-	-	-	-	-	-	60	120	19	0	-	-	-	-	-	-
Europe	German	7663532	12.1	0	-	-	-	-	-	-	174	348	42	0	-	-	-	-	-	-
Europe	German	17680025	11.9	3.8	-	-	-	-	-	-	572	1144	136	44	-	-	-	-	-	-
Europe	German	14586385	15.6	-	-	-	-	-	-	-	96	192	30	-	-	-	-	-	-	-
Europe	German	15371981	18.3	-	-	-	-	-	-	-	131	262	48	-	-	-	-	-	-	-
Europe	German	19415824	15.0	-	-	-	-	-	-	-	533	1066	160	-	-	-	-	-	-	-
Europe	German	12713578	15.0	-	-	-	-	-	-	-	562	1124	169	-	-	-	-	-	-	-
Europe	German	20510210	16.3	-	-	-	-	-	-	-	760	1520	248	-	-	-	-	-	-	-
Europe	German	19193675	14.6	-	-	-	-	-	-	-	2485	4970	727	-	-	-	-	-	-	-
Europe	German	19424794	14.6	-	-	-	-	-	-	-	8609	17218	2510	-	-	-	-	-	-	-
Europe	German	16413243	12.7	-	1	-	-	-	-	-	51	102	13	-	1	-	-	-	-	-
Europe	Greek	19102714	13.1	0	-	-	-	-	-	19.6	283	566	74	0	-	-	-	-	-	111
Europe	Italian	20309015	14.3	-	-	-	-	-	-	17.6	182	364	52	-	-	-	-	-	-	64
Europe	Italian	15177309	11.1	0	-	-	-	-	-	-	360	720	80	0	-	-	-	-	-	-
Europe	Italian	12496751	12.4	-	-	-	-	-	-	-	93	186	23	-	-	-	-	-	-	-
Europe	Italian	19268736	17.7	-	-	-	-	-	-	-	772	1544	273	-	-	-	-	-	-	-
Europe	Italian	18004210	17.1	-	-	-	-	-	-	-	1419	2838	485	-	-	-	-	-	-	-
Europe	Norwegian	20565970	17.8	-	-	-	-	-	-	21.7	90	180	32	-	-	-	-	-	-	39
Europe	Norwegian	20665013	15.2	-	-	-	-	-	-	22.0	309	618	94	-	-	-	-	-	-	136
Europe	Norwegian	18677622	-	-	-	-	-	-	-	23.6	121	242	-	-	-	-	-	-	-	57
Europe	Norwegian	17625515	18.1	0.6	-	-	-	-	-	-	166	332	60	2	-	-	-	-	-	73
Europe	Norwegian	12835613	15.2	0	0	-	-	-	-	-	128	256	39	0	0	-	-	-	-	-
Europe	Norwegian	16418702	19.9	-	-	-	-	-	-	-	83	166	33	-	-	-	-	-	-	-
Europe	Polish	16912869	11.6	-	-	-	-	-	-	27.2	125	250	29	-	-	-	-	-	-	68
Europe	Polish	20376628	12.6	-	-	-	-	-	-	28.1	139	278	35	-	-	-	-	-	-	78
Europe	Polish	15976989	10.0	-	-	-	-	-	-	-	70	140	14	-	-	-	-	-	-	-
Europe	Polish	18577829	10.5	-	-	-	-	-	-	-	105	210	22	-	-	-	-	-	-	-
Europe	Polish	20924183	11.9	-	-	-	-	-	-	-	261	522	62	-	-	-	-	-	-	-
Europe	Portuguese	9295062	13.1	0	-	-	-	-	-	-	153	306	40	0	-	-	-	-	-	-
Europe	Portuguese	18240903	14	-	-	-	-	-	-	-	126	252	35	-	-	-	-	-	-	-
Europe	Russian	12879168	11.4	0.3	-	-	-	-	-	-	290	580	66	2	-	-	-	-	-	-
Europe	Russian	18061941	9.4	-	-	-	-	-	-	-	159	318	30	-	-	-	-	-	-	-
Europe	Russian	20373852	13.1	-	-	-	-	-	-	-	352	704	92	-	-	-	-	-	-	-
Europe	Siberian	18597650	-	3.5	-	-	-	-	-	-	437	874	-	31	-	-	-	-	-	-
Europe	Siberian	18597650	17.3	-	-	-	-	-	-	-	433	866	150	-	-	-	-	-	-	-
Europe	Slovenian	18496682	10.5	-	-	-	-	-	-	32.9	105	210	22	-	-	-	-	-	-	69
Europe	Spanish	15728438	13.7	-	-	-	-	-	-	-	300	600	82	-	-	-	-	-	-	-

Europe	Spanish	16006997	13.9	-	-	-	-	-	-	-	672	1344	187	-	-	-	-	-	-	-
Europe	Swedish	20499227	28	11	-	-	-	-	-	0.3	185	370	104	41	-	-	-	-	-	1
Europe	Swedish	16413245	-	-	-	-	-	-	-	6.4	314	628	-	-	-	-	-	-	40	
Europe	Swedish	19907421	14.5	-	0.1	-	-	-	-	17.7	713	1426	207	-	1	-	-	-	252	
Europe	Swedish	20468063	15.1	-	-	-	-	-	-	19.0	1416	2832	427	-	-	-	-	-	537	
Europe	Swedish	8747407	11.7	0.3	-	-	-	-	-	-	175	350	41	1	-	-	-	-	-	
Europe	Swedish	9776439	14.5	0.4	-	-	-	-	-	-	245	490	71	2	-	-	-	-	-	
Europe	Swedish	9772024	15.5	0	-	-	-	-	-	-	110	220	34	4	-	-	-	-	-	
Europe	Swedish	9829356	12.6	1.4	-	-	-	-	-	-	143	286	36	4	-	-	-	-	-	
Europe	Swiss	16338275	16.3	0.2	-	-	-	-	-	-	208	416	68	1	-	-	-	-	-	
Europe	Swiss	17697139	13.8	-	-	-	-	-	-	-	94	188	26	-	-	-	-	-	-	
Europe	Swiss	17681590	17.9	-	-	-	-	-	-	-	81	162	29	-	-	-	-	-	-	
Europe	Swiss	11809184	13.4	-	-	-	-	-	-	-	123	246	33	-	-	-	-	-	-	
Europe	Swiss	17178267	16.7	0.1	-	-	-	-	-	-	245	490	82	0	-	-	-	-	-	
Europe	Turkish	10460072	12	0.4	0	0	-	-	-	-	404	808	97	3	0	0	-	-	-	
Europe	Turkish	19499406	12.0	0	-	-	-	-	-	-	100	200	24	0	-	-	-	-	-	
Europe	Turkish	17269966	11.5	0	-	-	-	-	-	-	169	338	39	0	-	-	-	-	-	
Europe	Turkish	17290075	21.7	0	-	-	-	-	-	-	182	364	79	0	-	-	-	-	-	
Europe	Turkish	20533108	11.4	5.2	-	-	-	-	-	-	105	210	24	11	-	-	-	-	-	
Europe	Turkish	17868191	12.1	4.0	-	-	-	-	-	-	199	398	48	16	-	-	-	-	-	
Europe	Turkish	11908757	9.4	8.9	-	-	-	-	-	-	96	192	18	17	-	-	-	-	-	
Europe	Turkish	19821196	13	1	-	-	-	-	-	-	100	200	26	2	-	-	-	-	-	
Europe	White	19106084	-	-	-	-	-	-	-	19.5	2164	4328	-	-	-	-	-	-	844	
Europe	White	20801498	14.1	0.1	0.1	0.0	0.0	0	0.4	22.3	10285	20570	2899	16	26	1	2	0	74	
Europe	White	19106083	-	-	-	0.0	-	-	-	-	2176	4352	-	-	-	1	-	-	-	
Europe	White	19106083	-	-	0.5	-	-	-	-	-	2189	4378	-	-	21	-	-	-	-	
Europe	White	19106083	-	0.0	-	-	-	-	-	-	2187	4374	-	1	-	-	-	-	-	
Europe	White	19106083	15.4	-	-	-	-	-	-	-	2178	4356	670	-	-	-	-	-	-	
Europe	White/Non-Hispanic	21192344	13.3	0	0.4	-	0.0	-	0.4	22.5	1253	2506	333	0	10	-	1	-	10	
Middle East	Bedouin	15651900	12.0	1.0	-	-	-	-	-	-	50	100	12	1	-	-	-	-	-	
Middle East	Iranian	17201743	14.0	0.0	-	-	-	-	-	-	200	400	56	0	-	-	-	-	-	
Middle East	Iranian	20804307	13.4	1.8	-	-	-	-	-	-	82	164	22	3	-	-	-	-	-	
Middle East	Iranian	20637959	11.1	1.0	-	-	-	-	-	-	99	198	22	2	-	-	-	-	-	
Middle East	Iranian	20885015	12.3	0.7	-	-	-	-	-	-	150	300	37	2	-	-	-	-	-	
Middle East	Jewish Israeli	10096259	15.4	0.7	-	-	-	-	-	-	140	280	43	2	-	-	-	-	-	
Middle East	Palestinian	19193970	7.1	2.6	-	-	-	-	-	-	252	504	36	13	-	-	-	-	-	
Middle East	Saudi Arabians	9110363	15.0	0.0	-	-	-	-	-	-	97	194	29	0	-	-	-	-	-	

Oceania	Filipinos	9110363	39	7.7	-	-	-	-	-	-	52	104	41	8	-	-	-	-	-	-
Oceania	Maori	18425152	24	1.7	-	-	-	-	-	-	60	120	29	2	-	-	-	-	-	-
Oceania	Sepik (pooled study)	14583683	45	16	-	-	-	-	-	-	401	802	361	127	-	-	-	-	-	-
Oceania	Vanuatuan (pooled study)	10591538	63	15	-	-	-	-	-	-	5638	11276	7132	1660	-	-	-	-	-	-
Oceania	Vanuatuan (pooled study)	9093256	70.8	13.3	-	-	-	-	-	-	493	986	698	131	-	-	-	-	-	-
Oceania	Western Australian Aborigine	11207032	35.5	14.3	-	-	-	-	-	-	227	454	161	65	-	-	-	-	-	-
South/Central Asia	Maharashtrian (India)	17978853	46.0	1.1	-	-	-	-	-	-	139	278	128	3	-	-	-	-	-	-
South/Central Asia	North Indian	11014415	29.8	0	-	-	-	-	-	-	121	242	72	0	-	-	-	-	-	-
South/Central Asia	North Indian	20602612	36.3	0.4	-	-	-	-	-	-	457	914	332	4	-	-	-	-	-	-
South/Central Asia	North Indian	18644391	34.1	5.8	-	-	-	-	-	-	600	1200	409	70	-	-	-	-	-	-
South/Central Asia	North Indian	19954746	34.9	-	-	-	-	-	-	-	750	1500	523	-	-	-	-	-	-	-
South/Central Asia	North Indian	19942749	29.1	-	-	-	-	-	-	-	91	182	53	-	-	-	-	-	-	-
South/Central Asia	Pakistani	20102361	27.2	-	-	-	-	-	-	-	68	136	37	-	-	-	-	-	-	-
South/Central Asia	South Indian	15662508	36.7	0.5	0	0	0	-	-	-	300	600	220	3	0	0	0	-	-	-
South/Central Asia	South Indian	15660966	34.2	0.6	-	-	-	-	-	-	341	682	233	4	-	-	-	-	-	-
South/Central Asia	South Indian	20045989	38	2	-	-	-	-	-	-	50	100	38	2	-	-	-	-	-	-
South/Central Asia	South Indian	19430176	37.1	2.5	-	-	-	-	-	-	58	116	43	3	-	-	-	-	-	-
South/Central Asia	Tamilian	20390258	42.0	0.7	-	-	-	-	-	-	292	584	245	4	-	-	-	-	-	-
South/Central Asia	Tamilian	12919183	37.9	2.2	-	-	-	-	-	-	112	224	85	5	-	-	-	-	-	-
South/Central Asia	Uighur Chinese	20460345	-	2.4	-	-	-	-	-	-	706	1412	-	34	-	-	-	-	-	-
South/Central Asia	Uigur Chinese	15612662	49.0	1.6	-	-	-	-	-	-	96	192	94	3	-	-	-	-	-	-
South/Central Asia	Uyur Chinese	19444287	16.1	9.4	-	-	-	-	-	-	149	298	48	28	-	-	-	-	-	-

¹ Worldwide subpopulations and ethnicities were grouped based on the Human Genome Diversity Project-Centre Etude Polymorphism Humain (HGDP-CEPH) (21, 22).

² PMID is a unique PubMed Identifier number assigned to each PubMed citation of life sciences and biomedical scientific journal articles: <http://www.ncbi.nlm.nih.gov/pubmed/>.

³ Data in bold were manually retrieved from each study; non-bold data were calculated and derived from the applicable reported (bold) data. Alleles not interrogated in a given study are noted by a dashed line ('-').

⁴ Because the *CYP2C19*17* allele was identified in 2006 (103), *CYP2C19* studies prior to this date did not include this allele.