

Supplementary Table 1. List of all analyzed single nucleotide polymorphisms (SNPs) in the recruited patients.

#	SNP	Chromosome	Position	Gene (if applicable)	Official gene symbol	Function or pathway	Variant type
1	rs4908343	1	27605187	(ancestry informative marker)			
2	rs1325502	1	41894599	(ancestry informative marker)			
3	rs3737576	1	101244007	(ancestry informative marker)			
4	rs7554936	1	151150013	(ancestry informative marker)			
5	rs3003596	1	161234427	Nuclear receptor subfamily 1 group I member 3	<i>NR1I3</i>	Regulation of drugs and endobiotic metabolism	Downstream gene region
6	rs2222202	1	206772036	Interleukin 10	<i>IL10</i>	Immunoregulation	Intronic
7	rs1800871	1	206773289	Interleukin 10	<i>IL10</i>	Immunoregulation	Upstream gene region
8	rs1800890	1	206776020	Interleukin 10	<i>IL10</i>	Immunoregulation	Upstream gene region
9	rs798443	2	7828144	(ancestry informative marker)			
10	rs4666200	2	29315545	(ancestry informative marker)			
11	rs4670767	2	37714253	(ancestry informative marker)			
12	rs13400937	2	79637797	(ancestry informative marker)			
13	rs260690	2	108963282	(ancestry informative marker)			
14	rs16944	2	112837290	Interleukin 1 beta	<i>IL1B</i>	Pro-inflammation cytokine	Upstream gene region
15	rs10496971	2	145012376	(ancestry informative marker)			
16	rs9809104	3	39104938	(ancestry informative marker)			
17	rs6548616	3	79350425	(ancestry informative marker)			
18	rs12629908	3	120803869	(ancestry informative marker)			
19	rs9845457	3	136195634	(ancestry informative marker)			
20	rs1513181	3	188857208	(ancestry informative marker)			
21	rs10007810	4	41552347	(ancestry informative marker)			
22	rs115770495	4	88090508	<i>ATP binding cassette subfamily G member 2</i>	<i>ABCG2</i>	Membrane transport, antiretroviral drugs efflux	3' untranslated region
23	rs1448784	4	88091168	<i>ATP binding cassette subfamily G member 2</i>	<i>ABCG2</i>	Membrane transport, antiretroviral drugs efflux	3' untranslated region
24	rs2231142	4	88131171	<i>ATP binding cassette subfamily G member 2</i>	<i>ABCG2</i>	Membrane transport, antiretroviral drugs efflux	Missense (Gln141Lys)
25	rs7657799	4	104454266	(ancestry informative marker)			
26	rs2069762	4	122456825	Interleukin 12	<i>IL2</i>	Regulates T and B lymphocytes proliferation	Upstream gene region
27	rs10519613	4	141732931	Interleukin 15	<i>IL15</i>	T lymphocytes activation	3' untranslated region
28	rs10833	4	141733394	Interleukin 15	<i>IL15</i>	T lymphocytes activation	3' untranslated region
29	rs316598	5	2364512	(ancestry informative marker)			
30	rs870347	5	6844922	(ancestry informative marker)			

#	SNP	Chromosome	Position	Gene (if applicable)	Official gene symbol	Function or pathway	Variant type
31	rs1494555	5	35871088	Interleukin 7 receptor	<i>IL7R</i>	Signal transducer, regulates T lymphocytes development	Missense (Val138Ile)
32	rs11567762	5	35873099	Interleukin 7 receptor	<i>IL7R</i>	Signal transducer, regulates T lymphocytes development	Intronic
33	rs6897932	5	35874473	Interleukin 7 receptor	<i>IL7R</i>	Signal transducer, regulates T lymphocytes development	Missense (Thr244Ile)
34	rs3822731	5	35875138	Interleukin 7 receptor	<i>IL7R</i>	Signal transducer, regulates T lymphocytes development	Intronic
35	rs987106	5	35875491	Interleukin 7 receptor	<i>IL7R</i>	Signal transducer, regulates T lymphocytes development	Intronic
36	rs3194051	5	35876172	Interleukin 7 receptor	<i>IL7R</i>	Signal transducer, regulates T lymphocytes development	Missense (Ile356Val)
37	rs6451722	5	43711276	(ancestry informative marker)			
38	rs2243250	5	132673462	Interleukin 4	<i>IL4</i>	Immunoregulation	Upstream gene region
39	rs6422347	5	178436082	(ancestry informative marker)			
40	rs1040045	6	4746925	(ancestry informative marker)			
41	rs2504853	6	12534879	(ancestry informative marker)			
42	rs4463276	6	144734195	(ancestry informative marker)			
43	rs731257	7	12629626	(ancestry informative marker)			
44	rs3842	7	87504050	ATP binding cassette subfamily B member 1	<i>ABCB1</i>	Membrane transport, antiretroviral drugs efflux	3' untranslated region
45	rs2235048	7	87509195	ATP binding cassette subfamily B member 1	<i>ABCB1</i>	Membrane transport, antiretroviral drugs efflux	Intronic
46	rs1128503	7	87550285	ATP binding cassette subfamily B member 1	<i>ABCB1</i>	Membrane transport, antiretroviral drugs efflux	Synonymous (Gly412Gly)
47	rs2214102	7	87600185	ATP binding cassette subfamily B member 1	<i>ABCB1</i>	Membrane transport, antiretroviral drugs efflux	5' untranslated region
48	rs4646437	7	99767460	Cytochrome P450 family 3 subfamily A member 4	<i>CYP3A4</i>	Antiretroviral drugs metabolism	Intronic
49	rs7803075	7	131057307	(ancestry informative marker)			
50	rs10236187	7	139747578	(ancestry informative marker)			
51	rs10108270	8	4333271	(ancestry informative marker)			
52	rs3943253	8	13501991	(ancestry informative marker)			
53	rs1471939	8	29083788	(ancestry informative marker)			
54	rs4746136	10	73541236	(ancestry informative marker)			
55	rs2234767	10	88989499	Fas cell surface death receptor	<i>FAS</i>	Apoptosis	Upstream gene region
56	rs1800682	10	88990206	Fas cell surface death receptor	<i>FAS</i>	Apoptosis	Upstream gene region
57	rs4918842	10	113557053	(ancestry informative marker)			
58	rs2946788	11	23988984	(ancestry informative marker)			
59	rs11568629	11	62984340	Solute carrier family 22 member 6	<i>SLC22A6</i>	Membrane transport, antiretroviral drugs influx/efflux	Synonymous (Pro117Pro)
60	rs11568628	11	62984439	Solute carrier family 22 member 6	<i>SLC22A6</i>	Membrane transport, antiretroviral drugs influx/efflux	Synonymous (Pro84Pro)
61	rs4149170	11	62984817	Solute carrier family 22 member 6	<i>SLC22A6</i>	Membrane transport, antiretroviral drugs influx/efflux	5' untranslated region
62	rs3135932	11	117993348	Interleukin 10 receptor subunit alpha	<i>IL10RA</i>	Signal transducer, immunoregulation	Missense (Ser159Gly)
63	rs9610	11	118001371	Interleukin 10 receptor subunit alpha	<i>IL10RA</i>	Signal transducer, immunoregulation	3' untranslated region

#	SNP	Chromosome	Position	Gene (if applicable)	Official gene symbol	Function or pathway	Variant type
64	rs2416791	12	11548554	(ancestry informative marker)			
65	rs772262	12	55769950	(ancestry informative marker)			
66	rs2069709	12	68159923	Interferon Gamma	<i>IFNG</i>	Immunoregulation	Upstream gene region
67	rs9319336	13	27050219	(ancestry informative marker)			
68	rs7997709	13	34273600	(ancestry informative marker)			
69	rs9530435	13	75419751	(ancestry informative marker)			
70	rs9522149	13	111174820	(ancestry informative marker)			
71	rs1760921	14	20349972	(ancestry informative marker)			
72	rs3784230	14	105212718	(ancestry informative marker)			
73	rs762551	15	74749576	Cytochrome P450 family 1 subfamily A member 2	<i>CYP1A2</i>	Antiretroviral drugs metabolism	Intronic
74	rs129081	16	16142082	ATP binding cassette subfamily C member 1	<i>ABCC1</i>	Membrane transport, antiretroviral drugs efflux	3' untranslated region
75	rs113264879	16	16142164	ATP binding cassette subfamily C member 1	<i>ABCC1</i>	Membrane transport, antiretroviral drugs efflux	3' untranslated region
76	rs4148380	16	16142574	ATP binding cassette subfamily C member 1	<i>ABCC1</i>	Membrane transport, antiretroviral drugs efflux	3' untranslated region
77	rs8056298	16	16142666	ATP binding cassette subfamily C member 1	<i>ABCC1</i>	Membrane transport, antiretroviral drugs efflux	3' untranslated region
78	rs212091	16	16142793	ATP binding cassette subfamily C member 1	<i>ABCC1</i>	Membrane transport, antiretroviral drugs efflux	3' untranslated region
79	rs16967632	16	16142926	ATP binding cassette subfamily C member 1	<i>ABCC1</i>	Membrane transport, antiretroviral drugs efflux	3' untranslated region
80	rs2107538	17	35880776	C-C motif chemokine ligand 5	<i>CCL5</i>	Immunoregulation	Upstream gene region
81	rs11652805	17	64991033	(ancestry informative marker)			
82	rs2125345	17	75786110	(ancestry informative marker)			
83	rs4891825	18	70200427	(ancestry informative marker)			
84	rs8192726	19	40848591	Cytochrome P450 family 2 subfamily A member 6	<i>CYP2A6</i>	Antiretroviral drugs metabolism	Intronic
85	rs8192709	19	40991369	Cytochrome P450 family 2 subfamily B member 6	<i>CYP2B6</i>	Antiretroviral drugs metabolism	Missense (Arg22Cys)
86	rs28399499	19	41012316	Cytochrome P450 family 2 subfamily B member 6	<i>CYP2B6</i>	Antiretroviral drugs metabolism	Missense (Ile328Thr)
87	rs34097093	19	41012465	Cytochrome P450 family 2 subfamily B member 6	<i>CYP2B6</i>	Antiretroviral drugs metabolism	Stop (Arg378*)
88	rs28399502	19	41016965	Cytochrome P450 family 2 subfamily B member 6	<i>CYP2B6</i>	Antiretroviral drugs metabolism	3' untranslated region
89	rs707265	19	41018182	Cytochrome P450 family 2 subfamily B member 6	<i>CYP2B6</i>	Antiretroviral drugs metabolism	3' untranslated region
90	rs1042389	19	41018248	Cytochrome P450 family 2 subfamily B member 6	<i>CYP2B6</i>	Antiretroviral drugs metabolism	3' untranslated region
91	rs6104567	20	10214785	(ancestry informative marker)			
92	rs3907047	20	55384376	(ancestry informative marker)			
93	rs4821004	22	31970372	(ancestry informative marker)			
94	rs5768007	22	47812123	(ancestry informative marker)			

Supplementary Table 2. Allele and genotype frequencies of all variants analyzed.

#	SNP	Alleles		Gene (if applicable)	Immunologic non-responders					Immunologic responders					GCR	HWE p
		A1	A2		A1 (%)	A2 (%)	A1/A1 (%)	A1/A2 (%)	A2/A2 (%)	A1 (%)	A2 (%)	A1/A1 (%)	A1/A2 (%)	A2/A2 (%)		
1	rs4908343	A	G	(ancestry informative marker)	72 (54.0)	62 (0.46)	16 (24.0)	40 (60.0)	11 (16.0)	121 (56.0)	95 (44.0)	33 (31.0)	55 (51.0)	20 (19.0)	100.0	0.22
2	rs1325502	G	A	(ancestry informative marker)	81 (60.0)	53 (40.0)	26 (39.0)	29 (43.0)	12 (18.0)	137 (63.0)	81 (37.0)	43 (39.0)	51 (47.0)	15 (14.0)	100.0	0.63
3	rs3737576	A	G	(ancestry informative marker)	120 (90.0)	14 (10.0)	54 (81.0)	12 (18.0)	1 (1.0)	196 (91.0)	20 (9.0)	90 (83.0)	16 (15.0)	2 (2.0)	100.0	0.21
4	rs7554936	G	A	(ancestry informative marker)	88 (66.0)	46 (34.0)	28 (42.0)	32 (48.0)	7 (10.0)	110 (51.0)	106 (49.0)	28 (26.0)	54 (50.0)	26 (24.0)	100.0	1.00
5	rs3003596	A	G	<i>NR1I3</i>	70 (52.0)	64 (48.0)	17 (25.0)	36 (54.0)	14 (21.0)	130 (60.0)	86 (40.0)	42 (39.0)	46 (43.0)	20 (19.0)	100.0	0.64
6	rs2222202	G	A	<i>IL10</i>	89 (66.0)	45 (34.0)	32 (48.0)	25 (37.0)	10 (15.0)	145 (67.0)	73 (33.0)	49 (45.0)	47 (43.0)	13 (12.0)	100.0	0.31
7	rs1800871	G	A	<i>IL10</i>	84 (63.0)	50 (37.0)	25 (37.0)	34 (51.0)	8 (12.0)	138 (63.0)	80 (37.0)	44 (40.0)	50 (46.0)	15 (14.0)	100.0	0.87
8	rs1800890	T	A	<i>IL10</i>	96 (72.0)	38 (28.0)	34 (51.0)	28 (42.0)	5 (7.0)	157 (72.0)	61 (28.0)	58 (53.0)	41 (38.0)	10 (9.0)	100.0	0.71
9	rs798443	A	G	(ancestry informative marker)	71 (54.0)	61 (46.0)	20 (30.0)	31 (47.0)	15 (23.0)	125 (57.0)	93 (43.0)	35 (32.0)	55 (50.0)	19 (17.0)	98.5	1.00
10	rs4666200	A	G	(ancestry informative marker)	78 (58.0)	56 (42.0)	23 (34.0)	32 (48.0)	12 (18.0)	127 (59.0)	89 (41.0)	38 (35.0)	51 (47.0)	19 (18.0)	100.0	0.76
11	rs4670767	C	A	(ancestry informative marker)	115 (86.0)	19 (14.0)	48 (72.0)	19 (28.0)	0 (0.0)	189 (87.0)	29 (13.0)	82 (75.0)	25 (23.0)	2 (2.0)	100.0	0.75
12	rs13400937	C	A	(ancestry informative marker)	71 (55.0)	59 (45.0)	19 (29.0)	33 (51.0)	13 (20.0)	120 (56.0)	96 (44.0)	36 (33.0)	48 (44.0)	24 (22.0)	97.0	0.54
13	rs260690	A	C	(ancestry informative marker)	91 (68.0)	43 (32.0)	32 (48.0)	27 (40.0)	8 (12.0)	135 (62.0)	83 (38.0)	38 (35.0)	59 (54.0)	12 (11.0)	100.0	0.51
14	rs16944	A	G	<i>IL1B</i>	74 (60.0)	50 (40.0)	21 (34.0)	32 (52.0)	9 (15.0)	97 (52.0)	91 (48.0)	29 (31.0)	39 (41.0)	26 (28.0)	92.5	0.33
15	rs10496971	A	C	(ancestry informative marker)	76 (90.0)	8 (10.0)	34 (81.0)	8 (19.0)	0 (0.0)	111 (91.0)	11 (9.0)	51 (84.0)	9 (15.0)	1 (2.0)	62.7	1.00
16	rs9809104	A	G	(ancestry informative marker)	73 (57.0)	55 (43.0)	19 (30.0)	35 (55.0)	10 (16.0)	120 (55.0)	98 (45.0)	31 (28.0)	58 (53.0)	20 (18.0)	95.5	0.28
17	rs6548616	A	G	(ancestry informative marker)	66 (52.0)	62 (48.0)	20 (31.0)	26 (41.0)	18 (28.0)	116 (54.0)	100 (46.0)	26 (24.0)	64 (59.0)	18 (17.0)	95.5	0.54
18	rs12629908	G	A	(ancestry informative marker)	114 (85.0)	20 (15.0)	48 (72.0)	18 (27.0)	1 (1.0)	178 (83.0)	36 (17.0)	73 (68.0)	32 (30.0)	2 (2.0)	100.0	0.58
19	rs9845457	NA	NA	(ancestry informative marker)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	0.0	NA
20	rs1513181	G	A	(ancestry informative marker)	93 (69.0)	41 (31.0)	32 (48.0)	29 (43.0)	6 (9.0)	169 (78.0)	49 (22.0)	68 (62.0)	33 (30.0)	8 (7.0)	100.0	0.32
21	rs10007810	G	A	(ancestry informative marker)	70 (52.0)	64 (48.0)	17 (25.0)	36 (54.0)	14 (21.0)	112 (51.0)	106 (49.0)	25 (23.0)	62 (57.0)	22 (20.0)	100.0	0.17
22	rs115770495	G	A	<i>ABCG2</i>	133 (99.0)	1 (1.0)	66 (99.0)	1 (1.0)	0 (0.0)	210 (96.0)	8 (4.0)	102 (94.0)	6 (6.0)	1 (1.0)	100.0	1.00
23	rs1448784	A	G	<i>ABCG2</i>	133 (99.0)	1 (1.0)	66 (99.0)	1 (1.0)	0 (0.0)	213 (98.0)	5 (2.0)	104 (95.0)	5 (5.0)	0 (0.0)	100.0	0.10
24	rs2231142	C	A	<i>ABCG2</i>	122 (91.0)	12 (9.0)	55 (82.0)	12 (18.0)	0 (0.0)	194 (89.0)	24 (11.0)	86 (79.0)	22 (20.0)	1 (1.0)	100.0	1.00
25	rs7657799	A	C	(ancestry informative marker)	88 (69.0)	40 (31.0)	31 (48.0)	26 (41.0)	7 (11.0)	151 (71.0)	61 (29.0)	53 (50.0)	45 (42.0)	8 (8.0)	95.5	1.00
26	rs2069762	A	C	<i>IL2</i>	114 (85.0)	20 (15.0)	47 (70.0)	20 (30.0)	0 (0.0)	151 (70.0)	65 (30.0)	49 (45.0)	53 (49.0)	6 (6.0)	100.0	0.10
27	rs10519613	C	A	<i>IL15</i>	114 (86.0)	18 (14.0)	50 (76.0)	14 (21.0)	2 (3.0)	184 (84.0)	34 (16.0)	78 (72.0)	28 (26.0)	3 (3.0)	98.5	0.55
28	rs10833	G	A	<i>IL15</i>	100 (78.0)	28 (22.0)	40 (62.0)	20 (31.0)	4 (6.0)	161 (79.0)	43 (21.0)	63 (62.0)	35 (34.0)	4 (4.0)	95.5	0.82
29	rs316598	G	A	(ancestry informative marker)	73 (56.0)	57 (44.0)	18 (28.0)	37 (57.0)	10 (15.0)	118 (54.0)	100 (46.0)	32 (29.0)	54 (50.0)	23 (21.0)	97.0	0.54
30	rs870347	NA	NA	(ancestry informative marker)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	0.0	NA
31	rs1494555	A	G	<i>IL7R</i>	100 (75.0)	34 (25.0)	35 (52.0)	30 (45.0)	2 (3.0)	165 (76.0)	53 (24.0)	62 (57.0)	41 (38.0)	6 (6.0)	100.0	0.32

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		A1	A2		A1 (%)	A2 (%)	A1/A1 (%)	A1/A2 (%)	A2/A2 (%)	A1 (%)	A2 (%)	A1/A1 (%)	A1/A2 (%)	A2/A2 (%)		
32	rs11567762	G	A	<i>IL7R</i>	115 (86.0)	19 (14.0)	48 (72.0)	19 (28.0)	0 (0.0)	189 (87.0)	29 (13.0)	81 (74.0)	27 (25.0)	1 (1.0)	100.0	0.21
33	rs6897932	G	A	<i>IL7R</i>	108 (82.0)	24 (18.0)	43 (65.0)	22 (33.0)	1 (2.0)	178 (82.0)	38 (18.0)	70 (64.2)	38 (34.9)	1 (0.9)	98.5	0.02
34	rs3822731	A	G	<i>IL7R</i>	110 (82.0)	24 (18.0)	44 (66.0)	22 (33.0)	1 (1.0)	184 (84.0)	34 (16.0)	76 (70.0)	32 (29.0)	1 (1.0)	100.0	0.17
35	rs987106	A	T	<i>IL7R</i>	69 (52.0)	63 (48.0)	16 (24.0)	37 (56.0)	13 (20.0)	118 (55.0)	98 (45.0)	31 (29.0)	56 (52.0)	21 (19.0)	98.5	0.45
36	rs3194051	A	G	<i>IL7R</i>	97 (73.0)	35 (27.0)	36 (55.0)	25 (38.0)	5 (8.0)	144 (67.0)	70 (33.0)	50 (47.0)	44 (41.0)	13 (12.0)	98.5	0.47
37	rs6451722	G	A	(ancestry informative marker)	69 (51.0)	65 (49.0)	17 (25.0)	35 (52.0)	15 (22.0)	129 (59.0)	89 (41.0)	38 (35.0)	53 (49.0)	18 (17.0)	100.0	1.00
38	rs2243250	G	A	<i>IL4</i>	65 (52.0)	59 (48.0)	13 (21.0)	39 (63.0)	10 (16.0)	128 (63.0)	76 (37.0)	39 (38.0)	50 (49.0)	13 (13.0)	92.5	0.15
39	rs6422347	A	G	(ancestry informative marker)	76 (57.0)	58 (43.0)	20 (30.0)	36 (54.0)	11 (16.0)	145 (67.0)	73 (33.0)	47 (43.0)	51 (47.0)	11 (10.0)	100.0	0.52
40	rs1040045	A	G	(ancestry informative marker)	71 (53.0)	63 (47.0)	17 (25.0)	37 (55.0)	13 (19.0)	122 (58.0)	90 (42.0)	33 (31.0)	56 (53.0)	17 (16.0)	100.0	0.28
41	rs2504853	G	A	(ancestry informative marker)	69 (51.0)	65 (49.0)	15 (22.0)	39 (58.0)	13 (19.0)	116 (53.0)	102 (47.0)	32 (29.0)	52 (48.0)	25 (23.0)	100.0	0.76
42	rs4463276	A	G	(ancestry informative marker)	75 (56.0)	59 (44.0)	20 (30.0)	35 (52.0)	12 (18.0)	125 (58.0)	91 (42.0)	38 (35.0)	49 (45.0)	21 (19.0)	100.0	0.88
43	rs731257	G	A	(ancestry informative marker)	116 (87.0)	18 (13.0)	50 (75.0)	16 (24.0)	1 (1.0)	183 (85.0)	33 (15.0)	78 (72.0)	27 (25.0)	3 (3.0)	100.0	0.77
44	rs3842	A	G	<i>ABCB1</i>	114 (85.0)	20 (15.0)	49 (73.0)	16 (24.0)	2 (3.0)	176 (81.0)	42 (19.0)	72 (66.0)	32 (29.0)	5 (5.0)	100.0	0.43
45	rs2235048	A	G	<i>ABCB1</i>	74 (55.0)	60 (45.0)	19 (28.0)	36 (54.0)	12 (18.0)	140 (65.0)	76 (35.0)	49 (45.0)	42 (39.0)	17 (16.0)	100.0	0.43
46	rs1128503	G	A	<i>ABCB1</i>	81 (60.0)	53 (40.0)	26 (39.0)	29 (43.0)	12 (18.0)	156 (72.0)	62 (28.0)	57 (52.0)	42 (39.0)	10 (9.0)	100.0	0.30
47	rs2214102	G	A	<i>ABCB1</i>	129 (96.0)	5 (4.0)	62 (93.0)	5 (7.0)	0 (0.0)	213 (98.0)	5 (2.0)	104 (95.0)	5 (5.0)	0 (0.0)	100.0	1.00
48	rs4646437	G	A	<i>CYP3A4</i>	99 (74.0)	35 (26.0)	35 (52.0)	29 (43.0)	3 (4.0)	143 (66.0)	75 (34.0)	53 (49.0)	37 (34.0)	19 (17.0)	100.0	0.11
49	rs7803075	NA	NA	(ancestry informative marker)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	0.0	NA
50	rs10236187	A	C	(ancestry informative marker)	85 (65.0)	45 (35.0)	27 (42.0)	31 (48.0)	7 (11.0)	160 (75.0)	54 (25.0)	58 (54.0)	44 (41.0)	5 (5.0)	97.0	0.46
51	rs10108270	C	A	(ancestry informative marker)	69 (51.0)	65 (49.0)	19 (28.0)	31 (46.0)	17 (25.0)	114 (53.0)	100 (47.0)	32 (30.0)	50 (47.0)	25 (23.0)	100.0	0.37
52	rs3943253	A	G	(ancestry informative marker)	104 (78.0)	30 (22.0)	42 (63.0)	20 (30.0)	5 (7.0)	151 (71.0)	63 (29.0)	53 (50.0)	45 (42.0)	9 (8.0)	100.0	0.56
53	rs1471939	A	G	(ancestry informative marker)	97 (72.0)	37 (28.0)	35 (52.0)	27 (40.0)	5 (7.0)	150 (71.0)	62 (29.0)	52 (49.0)	46 (43.0)	8 (8.0)	100.0	0.85
54	rs4746136	G	A	(ancestry informative marker)	103 (78.0)	29 (22.0)	39 (59.0)	25 (38.0)	2 (3.0)	170 (78.0)	48 (22.0)	66 (61.0)	38 (35.0)	5 (5.0)	98.5	0.66
55	rs2234767	G	A	<i>FAS</i>	114 (85.0)	20 (15.0)	49 (73.0)	16 (24.0)	2 (3.0)	194 (89.0)	24 (11.0)	85 (78.0)	24 (22.0)	0 (0.0)	100.0	1.00
56	rs1800682	G	A	<i>FAS</i>	80 (60.0)	54 (40.0)	24 (36.0)	32 (48.0)	11 (16.0)	131 (60.0)	87 (40.0)	43 (39.0)	45 (41.0)	21 (19.0)	100.0	0.27
57	rs4918842	A	G	(ancestry informative marker)	107 (80.0)	27 (20.0)	41 (61.0)	25 (37.0)	1 (1.0)	172 (79.0)	46 (21.0)	68 (62.0)	36 (33.0)	5 (5.0)	100.0	0.65
58	rs2946788	A	C	(ancestry informative marker)	70 (52.0)	64 (48.0)	17 (25.0)	36 (54.0)	14 (21.0)	117 (55.0)	97 (45.0)	29 (27.0)	59 (55.0)	19 (18.0)	100.0	0.22
59	rs11568629	A	G	<i>SLC22A6</i>	85 (99.0)	1 (1.0)	42 (98.0)	1 (2.0)	24 (0.0)	126 (98.0)	2 (2.0)	62 (97.0)	2 (3.0)	0 (0.0)	64.2	1.00
60	rs11568628	C	A	<i>SLC22A6</i>	133 (99.0)	1 (1.0)	66 (99.0)	1 (1.0)	0 (0.0)	211 (97.0)	7 (3.0)	102 (94.0)	7 (6.0)	0 (0.0)	100.0	1.00
61	rs4149170	G	A	<i>SLC22A6</i>	110 (85.0)	20 (15.0)	46 (71.0)	18 (28.0)	1 (2.0)	172 (82.0)	38 (18.0)	73 (70.0)	26 (25.0)	6 (6.0)	97.0	0.28
62	rs3135932	A	G	<i>IL10RA</i>	125 (93.0)	9 (7.0)	58 (87.0)	9 (13.0)	0 (0.0)	204 (94.0)	14 (6.0)	95 (87.0)	14 (13.0)	0 (0.0)	100.0	1.00
63	rs9610	A	G	<i>IL10RA</i>	78 (59.0)	54 (41.0)	21 (32.0)	36 (55.0)	9 (14.0)	122 (56.0)	94 (44.0)	35 (32.0)	52 (48.0)	21 (19.0)	98.5	0.76
64	rs2416791	G	A	(ancestry informative marker)	74 (56.0)	58 (44.0)	18 (27.0)	38 (58.0)	10 (15.0)	126 (58.0)	90 (42.0)	37 (34.0)	52 (48.0)	19 (18.0)	98.5	0.54

#	SNP	Alleles		Gene (if applicable)	Immunologic non-responders					Immunologic responders					GCR	HWE p
		A1	A2		A1 (%)	A2 (%)	A1/A1 (%)	A1/A2 (%)	A2/A2 (%)	A1 (%)	A2 (%)	A1/A1 (%)	A1/A2 (%)	A2/A2 (%)		
65	rs772262	G	A	(ancestry informative marker)	76 (58.0)	54 (42.0)	23 (35.0)	30 (46.0)	12 (18.0)	129 (60.0)	87 (40.0)	35 (32.0)	59 (55.0)	14 (13.0)	97.0	0.43
66	rs2069709	C	A	<i>IFNG</i>	133 (99.0)	1 (1.0)	66 (99.0)	1 (1.0)	0 (0.0)	218 (100.0)	0 (0.0)	108 (99.0)	1 (1.0)	0 (0.0)	100.0	1.00
67	rs9319336	A	G	(ancestry informative marker)	112 (85.0)	20 (15.0)	47 (71.0)	18 (27.0)	1 (2.0)	182 (83.0)	36 (17.0)	76 (70.0)	30 (28.0)	3 (3.0)	98.5	1.00
68	rs7997709	A	G	(ancestry informative marker)	101 (75.0)	33 (25.0)	39 (58.0)	23 (34.0)	5 (7.0)	168 (78.0)	48 (22.0)	65 (60.0)	38 (35.0)	5 (5.0)	100.0	0.83
69	rs9530435	G	A	(ancestry informative marker)	77 (57.0)	57 (43.0)	24 (36.0)	29 (43.0)	14 (21.0)	134 (63.0)	78 (37.0)	40 (38.0)	54 (51.0)	12 (11.0)	100.0	1.00
70	rs9522149	A	G	(ancestry informative marker)	64 (51.0)	62 (49.0)	20 (32.0)	24 (38.0)	19 (30.0)	111 (53.0)	99 (47.0)	32 (30.0)	47 (45.0)	26 (25.0)	94.0	0.05
71	rs1760921	A	G	(ancestry informative marker)	87 (70.0)	37 (30.0)	31 (50.0)	25 (40.0)	6 (10.0)	160 (75.0)	54 (25.0)	55 (51.0)	50 (47.0)	2 (2.0)	92.5	0.12
72	rs3784230	G	A	(ancestry informative marker)	73 (56.0)	57 (44.0)	19 (29.0)	35 (54.0)	11 (17.0)	137 (63.0)	79 (37.0)	44 (41.0)	49 (45.0)	15 (14.0)	97.0	0.87
73	rs762551	A	C	<i>CYP1A2</i>	85 (65.0)	45 (35.0)	28 (43.0)	29 (45.0)	8 (12.0)	159 (74.0)	57 (26.0)	60 (56.0)	39 (36.0)	9 (8.0)	97.0	0.47
74	rs129081	C	G	<i>ABCC1</i>	72 (54.0)	62 (46.0)	19 (28.0)	34 (51.0)	14 (21.0)	121 (56.0)	95 (44.0)	29 (27.0)	63 (58.0)	16 (15.0)	100.0	0.13
75	rs113264879	G	A	<i>ABCC1</i>	133 (99.0)	1 (1.0)	66 (99.0)	1 (1.0)	0 (0.0)	211 (97.0)	7 (3.0)	102 (94.0)	7 (6.0)	0 (0.0)	100.0	1.00
76	rs4148380	G	A	<i>ABCC1</i>	127 (95.0)	7 (5.0)	60 (90.0)	7 (10.0)	0 (0.0)	209 (96.0)	9 (4.0)	100 (92.0)	9 (8.0)	0 (0.0)	100.0	1.00
77	rs8056298	C	A	<i>ABCC1</i>	126 (94.0)	8 (6.0)	59 (88.0)	8 (12.0)	0 (0.0)	204 (94.0)	12 (6.0)	96 (88.1)	12 (11.0)	1 (0.9)	100.0	1.00
78	rs212091	A	G	<i>ABCC1</i>	115 (87.0)	17 (13.0)	49 (74.0)	17 (26.0)	0 (0.0)	187 (87.0)	29 (13.0)	80 (74.0)	27 (25.0)	1 (1.0)	98.5	0.32
79	rs16967632	G	A	<i>ABCC1</i>	88 (100.0)	0 (0.0)	44 (100.0)	0 (0.0)	0 (0.0)	121 (98.0)	3 (2.0)	59 (95.0)	3 (5.0)	0 (0.0)	65.7	1.00
80	rs2107538	G	A	<i>CCL5</i>	96 (72.0)	38 (28.0)	34 (51.0)	28 (42.0)	5 (7.0)	165 (76.0)	53 (24.0)	62 (57.0)	41 (38.0)	6 (6.0)	100.0	0.85
81	rs11652805	G	A	(ancestry informative marker)	42 (51.0)	40 (49.0)	12 (29.0)	18 (44.0)	11 (27.0)	61 (52.0)	57 (48.0)	14 (24.0)	33 (56.0)	12 (20.0)	61.2	1.00
82	rs2125345	G	A	(ancestry informative marker)	71 (54.0)	61 (46.0)	19 (29.0)	33 (50.0)	14 (21.0)	123 (56.0)	95 (44.0)	36 (33.0)	51 (47.0)	22 (20.0)	98.5	0.65
83	rs4891825	A	G	(ancestry informative marker)	94 (70.0)	40 (30.0)	34 (51.0)	26 (39.0)	7 (10.0)	125 (57.0)	93 (43.0)	35 (32.0)	55 (50.0)	19 (17.0)	100.0	0.75
84	rs8192726	C	A	<i>CYP2A6</i>	126 (94.0)	8 (6.0)	59 (88.0)	8 (12.0)	0 (0.0)	205 (94.0)	13 (6.0)	96 (88.0)	13 (12.0)	0 (0.0)	100.0	1.00
85	rs8192709	G	A	<i>CYP2B6</i>	123 (96.0)	5 (4.0)	59 (92.0)	5 (8.0)	3 (0.0)	199 (93.0)	15 (7.0)	92 (84.4)	15 (13.8)	2 (1.8)	95.5	1.00
86	rs28399499	A	G	<i>CYP2B6</i>	123 (92.0)	11 (8.0)	56 (84.0)	11 (16.0)	0 (0.0)	212 (97.0)	6 (3.0)	103 (94.0)	6 (6.0)	0 (0.0)	100.0	1.00
87	rs34097093	G	A	<i>CYP2B6</i>	134 (100.0)	0 (0.0)	67 (100.0)	0 (0.0)	0 (0.0)	218 (100.0)	0 (0.0)	109 (100.0)	0 (0.0)	0 (0.0)	100.0	1.00
88	rs28399502	C	A	<i>CYP2B6</i>	133 (99.0)	1 (1.0)	66 (99.0)	1 (1.0)	0 (0.0)	211 (99.0)	3 (1.0)	104 (95.4)	3 (2.8)	2 (1.8)	100.0	1.00
89	rs707265	G	A	<i>CYP2B6</i>	80 (60.0)	54 (40.0)	22 (33.0)	36 (54.0)	9 (13.0)	166 (77.0)	50 (23.0)	63 (58.0)	40 (37.0)	5 (5.0)	100.0	0.72
90	rs1042389	A	G	<i>CYP2B6</i>	101 (77.0)	31 (23.0)	39 (59.0)	23 (35.0)	4 (6.0)	165 (79.0)	43 (21.0)	66 (63.0)	33 (32.0)	5 (5.0)	98.5	0.65
91	rs6104567	A	C	(ancestry informative marker)	89 (67.0)	43 (33.0)	32 (48.0)	25 (38.0)	9 (14.0)	155 (71.0)	63 (29.0)	54 (50.0)	47 (43.0)	8 (7.0)	98.5	0.72
92	rs3907047	A	G	(ancestry informative marker)	120 (90.0)	14 (10.0)	53 (79.0)	14 (21.0)	0 (0.0)	191 (88.0)	27 (12.0)	84 (77.0)	23 (21.0)	2 (2.0)	100.0	1.00
93	rs4821004	A	G	(ancestry informative marker)	75 (57.0)	57 (43.0)	19 (29.0)	37 (56.0)	10 (15.0)	120 (56.0)	94 (44.0)	30 (28.0)	60 (56.0)	17 (16.0)	98.5	0.09
94	rs5768007	G	A	(ancestry informative marker)	105 (81.0)	25 (19.0)	43 (66.0)	19 (29.0)	3 (5.0)	184 (85.0)	32 (15.0)	78 (72.0)	28 (26.0)	2 (2.0)	97.0	0.79

GCR – global call rate; HWE p – p-value from the exact test to assess compliance to Hardy-Weinberg equilibrium, NA – not available.

Supplementary Table 3. Complete results of the genetic association tests with the immunologic outcome.

#	SNP	Gene	X ²	Degrees of freedom	p-value
5	rs3003596	<i>NR1I3</i>	2.1	2	0.36
6	rs2222202	<i>IL10</i>	0.1	2	0.95
7	rs1800871	<i>IL10</i>	0	2	0.98
8	rs1800890	<i>IL10</i>	0.5	2	0.79
14	rs16944	<i>IL1B</i>	3.9	2	0.14
22	rs115770495	<i>ABCG2</i>	0.9	2	0.63
23	rs1448784	<i>ABCG2</i>	0	1	0.95
24	rs2231142	<i>ABCG2</i>	1	2	0.60
26	rs2069762	<i>IL2</i>	10.9	2	0.004
27	rs10519613	<i>IL15</i>	0.3	2	0.86
28	rs10833	<i>IL15</i>	1.7	2	0.44
31	rs1494555	<i>IL7R</i>	1.2	2	0.55
32	rs11567762	<i>IL7R</i>	0.4	2	0.80
33	rs6897932	<i>IL7R</i>	0.2	2	0.92
34	rs3822731	<i>IL7R</i>	0.7	2	0.70
35	rs987106	<i>IL7R</i>	2.4	2	0.31
36	rs3194051	<i>IL7R</i>	0.5	2	0.77
38	rs2243250	<i>IL4</i>	6.7	2	0.04
44	rs3842	<i>ABCB1</i>	1.1	2	0.58
45	rs2235048	<i>ABCB1</i>	5.7	2	0.06
46	rs1128503	<i>ABCB1</i>	7.3	2	0.03
47	rs2214102	<i>ABCB1</i>	0.5	1	0.47
48	rs4646437	<i>CYP3A4</i>	6.2	2	0.04
55	rs2234767	<i>FAS</i>	0.8	2	0.67
56	rs1800682	<i>FAS</i>	0	2	1.00
60	rs11568628	<i>SLC22A6</i>	2.6	1	0.11
61	rs4149170	<i>SLC22A6</i>	4.3	2	0.12
62	rs3135932	<i>IL10RA</i>	0.2	1	0.67
63	rs9610	<i>IL10RA</i>	3.4	2	0.19
66	rs2069709	<i>IFNG</i>	0.6	1	0.42
73	rs762551	<i>CYP1A2</i>	1.2	2	0.56
74	rs129081	<i>ABCC1</i>	1.3	2	0.52
75	rs113264879	<i>ABCC1</i>	0.6	1	0.44
76	rs4148380	<i>ABCC1</i>	0.6	1	0.45
77	rs8056298	<i>ABCC1</i>	0	1	0.91
78	rs212091	<i>ABCC1</i>	0.3	2	0.88
80	rs2107538	<i>CCL5</i>	0.2	2	0.91
84	rs8192726	<i>CYP2A6</i>	0	1	0.95
85	rs8192709	<i>CYP2B6</i>	0.5	1	0.49
86	rs28399499	<i>CYP2B6</i>	1.2	1	0.28
88	rs28399502	<i>CYP2B6</i>	0	1	0.97
89	rs707265	<i>CYP2B6</i>	8.3	2	0.02
90	rs1042389	<i>CYP2B6</i>	0.8	2	0.67