Association of IBD Risk Loci with Sarcoidosis and its Acute and Chronic Subphenotypes

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Online Data Supplement

Table S1: References for SNPs under study.

Variant	Initial publication of association with IBD	Publications replicating association with IBD or reporting associations with other diseases
rs10045431	[1]	[2-4]
rs1004819	[5]	[6-10]
rs10418239	[11]	-
rs1050152	[12]	[1, 7, 13-16]
rs10521209	[17-19]	[20]
rs10733113	[21]	-
rs10753575	[6]	-
rs10758669	[1]	[4, 22]
rs10761659	[23]	[24-25]
rs10801047	[26]	-
rs10870077	[11]	-
rs10883365	[26]	[24-25, 27]
rs10889677	[5]	[6-7, 28-33]
rs10974944	[34]	[35]
rs10995271	[1]	-
rs11175593	[1]	[4]
rs11205760	[23]	[24-25]
rs11209026	[5]	[1, 6-9, 23-25, 36-48]
rs11465804	[5]	[1, 6, 8, 32-33, 46, 49-52]
rs11584383	[1]	[4]
rs11617463	[53]	-
rs11747270	[23]	[1, 25]
rs12035082	[23]	[24-26, 54]
rs1248696	[55]	-
rs12529198	[23]	[1, 4, 25]
rs12612347	[34]	-
rs12704036	[23]	-
rs12948909	[4]	-
rs13361189	[26]	[24-25, 56-57]
rs1363670	[23]	[25]
rs1456893	[1]	[4]
rs1462651	[23]	-
rs1551398	[1]	[4]
rs1553575	[20]	-
rs1558744	[6]	-
rs17234657	[23]	[24-26]
rs17309827	[23]	[25]
rs1736135	[1]	-
rs17419032	[23]	[25]
rs1793004	[20]	-
rs1931047	[23]	[26]

rs1992660	[20]	-
rs1992662	[20]	-
rs2015070	[23]	-
rs2076756	[17-19]	[20, 53]
rs2188962	[1]	-
rs2228226	[58]	-
rs224136	[53]	[25-26]
rs2241880	[59]	[1, 24-25, 37, 41-42, 48, 50, 53, 57, 60-66]
rs2301436	[1]	-
rs2476601	[1]	[67-77]
rs2484676	[23, 26]	-
rs2522057	[23]	[78]
rs2542151	[26]	[1, 24-25]
rs2814036	[23]	-
rs2836753	[23]	-
rs2836754	[23, 26]	[54]
rs2872507	[1]	-
rs2925757	[20]	-
rs3024505	[34]	-
rs363617	[23]	[24]
rs3764147	[1]	-
rs3789243	[79]	[80-82]
rs3828309	[1]	-
rs3936503	[23]	[24]
rs4263839	[1]	-
rs4266924	[21]	-
rs4362447	[23]	-
rs4506508	[23]	-
rs4613763	[53]	[1]
rs4821544	[53]	[25, 56]
rs4871612	[23]	[4, 24-25]
rs4958847	[26]	[24-25, 56-57]
rs6011040	[23]	[25]
rs6426833	[6]	-
rs6601764	[23]	-
rs6887695	[23]	[24-27, 44-45, 47, 83-85]
rs6908425	[1, 23]	[4, 25, 54, 86-87]
rs6927210	[23]	[24]
rs6947579	[20]	-
rs7081330	[23]	-
rs7134599	[6]	-
rs744166	[1, 23]	[4, 25]
rs7547331	[23]	-
rs7611991	[34]	-
rs762421	[1]	[4]
rs7712957	[34]	-

rs7746082	[1]	-
rs7807268	[23]	-
rs7868736	[20]	-
rs7869487	[23, 88]	[25, 89]
rs7927894	[1]	[4, 90]
rs8050910	[53]	-
rs8111071	[23]	-
rs8176785	[20]	-
rs830772	[20]	-
rs842647	[11]	[91]
rs880324	[23]	-
rs916977	[23]	[24-25]
rs917997	[11]	[1, 4, 92-93]
rs9292777	[23]	[24-26]
rs946227	[23]	-
rs9858542	[23]	[25-26, 94]
rs9870678	[23]	-
rs9895062	[23]	[25]
rs9993022	[23]	-

In the middle column, the publication is specified, in which the association of each SNP with inflammatory bowel disease (IBD, either Crohn disease (CD) or ulcerative colitis (UC)) was first reported (initial publication). If existent, studies replicating the initial finding for IBD or reporting associations with other human diseases are listed in the right column. The corresponding references are given below this table.

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Table S2: Results for all SNPs that were tested for association with either overall or acute or chronic sarcoidosis.

						unaffected		overall sarcoidosis				acute sarcoidosis				chronic sarcoidosis			
#	Locus	Variant	chr: position	A1	A2	11/12/22	MAF	11/12/22	MAF	p	OR [95 % CI]	11/12/22	MAF	p	OR [95 % CI]	11/12/22	MAF	p	OR [95 % CI]
1	*ATCL8*	rs7547331	1: 17963516	C	T	325/1202/1055	0.36	228/899/847	0.34	1.27E-01	0.93 [0.86-1.02]	76/296/272	0.35	4.69E-01	0.95 [0.84-1.08]	133/517/496	0.34	1.56E-01	0.93 [0.84-1.03]
2	*OTUD3*	rs10753575	1: 20036455	C	T	440/1268/908	0.41	304/930/732	0.39	6.08E-02	0.92 [0.85-1.00]	90/309/239	0.38	7.47E-02	0.89 [0.79-1.01]	183/538/423	0.40	2.10E-01	0.94 [0.85-1.04]
3	*OTUD3*	rs6426833	1: 20044447	G	A	604/1275/736	0.47	461/972/555	0.48	8.79E-01	1.01 [0.93-1.09]	142/322/184	0.47	6.44E-01	0.97 [0.86-1.10]	276/565/314	0.48	4.81E-01	1.04 [0.94-1.14]
4	*DMRTA2*	rs2484676	1: 50645260	T	A	569/1239/784	0.46	415/993/581	0.46	9.81E-01	1.00 [0.92-1.09]	152/317/178	0.48	1.68E-01	1.09 [0.96-1.23]	220/586/351	0.44	2.24E-01	0.94 [0.85-1.04]
5	*FAF1*	rs11205760	1: 50946918	T	C	331/1194/1094	0.35	213/896/884	0.33	2.32E-02	0.90 [0.83-0.99]	67/295/287	0.33	1.07E-01	0.90 [0.79-1.02]	133/527/499	0.34	3.04E-01	0.95 [0.86-1.05]
6	*IL23R*	rs1004819	1: 67442801	T	C	193/1051/1376	0.27	159/809/1017	0.28	3.07E-01	1.05 [0.96-1.15]	42/279/326	0.28	6.50E-01	1.03 [0.90-1.18]	96/465/592	0.28	3.40E-01	1.05 [0.95-1.18]
7	*IL23R*	rs11465804	1: 67475114	G	T	10/290/2320	0.06	3/174/1814	0.05	3.08E-03	0.75 [0.62-0.91]	2/68/579	0.06	6.12E-01	0.93 [0.72-1.22]	1/89/1067	0.04	3.94E-04	0.65 [0.51-0.83]
8	*IL23R*	rs11209026	1: 67478546	A	G	10/325/2287	0.07	4/182/1810	0.05	2.09E-04	0.71 [0.59-0.85]	3/66/581	0.06	1.69E-01	0.83 [0.64-1.08]	1/96/1064	0.04	5.58E-05	0.63 [0.50-0.79]
9	*IL23R*	rs10889677	1: 67497708	A	C	221/1033/1368	0.28	171/825/991	0.29	1.93E-01	1.06 [0.97-1.16]	43/283/321	0.29	7.81E-01	1.02 [0.89-1.17]	104/477/575	0.30	1.83E-01	1.08 [0.97-1.20]
10	*1p31.1*	rs4506508	1: 77028924	C	A	82/794/1729	0.18	78/655/1260	0.20	1.82E-02	1.13 [1.02-1.26]	25/219/404	0.21	5.11E-02	1.16 [1.00-1.35]	48/382/730	0.21	2.38E-02	1.15 [1.02-1.30]
11	*PTPN22*	rs2476601	1: 114179091	A	G	25/531/2065	0.11	35/379/1564	0.11	6.88E-01	1.03 [0.90-1.17]	10/119/514	0.11	7.78E-01	0.97 [0.80-1.18]	21/226/905	0.12	4.88E-01	1.06 [0.91-1.23]
12	*POU2F1*	rs2814036	1: 165494922	A	G	2/103/2505	0.02	2/78/1914	0.02	9.83E-01	1.00 [0.75-1.34]	0/21/628	0.02	3.16E-01	0.79 [0.49-1.26]	1/45/1114	0.02	9.46E-01	0.99 [0.70-1.40]
13	*1q24.3*	rs12035082	1: 171165000	C	T	379/1266/976	0.39	352/970/673	0.42	1.16E-03	1.15 [1.06-1.25]	140/320/190	0.46	6.80E-07	1.36 [1.21-1.54]	186/560/414	0.40	2.00E-01	1.07 [0.97-1.18]
14	*1q31.2*	rs10801047	1: 189825979	A	T	16/375/2132	0.08	9/255/1659	0.07	8.90E-02	0.87 [0.74-1.02]	5/78/546	0.07	2.07E-01	0.86 [0.67-1.09]	4/155/956	0.07	2.68E-01	0.90 [0.74-1.09]
15	*DQ983818*	rs11584383	1: 199202489	C	T	199/1116/1306	0.29	187/815/988	0.30	3.00E-01	1.05 [0.96-1.15]	61/250/336	0.29	9.24E-01	0.99 [0.87-1.14]	106/480/572	0.30	3.79E-01	1.05 [0.94-1.17]
16	*BC016656*	rs17419032	1: 199265154	T	C	181/1071/1368	0.27	161/822/1009	0.29	1.47E-01	1.07 [0.98-1.17]	49/258/342	0.27	9.54E-01	1.00 [0.88-1.15]	95/483/580	0.29	1.26E-01	1.09 [0.98-1.21]
17	*IL10*	rs3024505	1: 205006527	T	C	84/720/1802	0.17	55/599/1328	0.18	2.88E-01	1.06 [0.95-1.18]	16/204/427	0.18	3.07E-01	1.09 [0.93-1.27]	35/336/780	0.18	5.26E-01	1.04 [0.92-1.19]
18	*NLRP3*	rs4266924	1: 245683757	G	A	30/536/2050	0.11	26/398/1557	0.11	9.60E-01	1.00 [0.88-1.14]	6/121/519	0.10	2.62E-01	0.89 [0.73-1.09]	13/226/912	0.11	5.74E-01	0.96 [0.82-1.12]
19	*NLRP3*	rs10733113	1: 245688980	A	G	53/662/1905	0.15	42/490/1455	0.14	7.75E-01	0.98 [0.87-1.11]	7/154/486	0.13	1.24E-01	0.87 [0.73-1.04]	26/286/844	0.15	9.67E-01	1.00 [0.87-1.15]
20	*REL*	rs842647	2: 60972975	G	A	262/1106/1248	0.31	176/787/1029	0.29	7.79E-03	0.88 [0.81-0.97]	61/253/335	0.29	1.14E-01	0.90 [0.79-1.03]	103/458/597	0.29	3.05E-02	0.89 [0.80-0.99]
21	*SEMA4F*	rs363617	2: 74772200	C	T	37/613/1968	0.13	28/459/1504	0.13	7.91E-01	0.98 [0.87-1.11]	11/143/495	0.13	6.95E-01	0.96 [0.80-1.16]	16/274/867	0.13	9.03E-01	1.01 [0.87-1.17]
22	*IL18RAP*	rs917997	2: 102437000	A	G	149/990/1480	0.25	128/763/1098	0.26	2.60E-01	1.06 [0.96-1.16]	41/255/353	0.26	3.05E-01	1.08 [0.94-1.24]	79/442/636	0.26	2.15E-01	1.07 [0.96-1.20]
23	*ITGB6*	rs2925757	2: 160809415	C	T	71/695/1825	0.16	71/565/1324	0.18	1.77E-02	1.14 [1.02-1.28]	22/203/414	0.19	6.52E-03	1.24 [1.06-1.46]	42/316/780	0.18	1.28E-01	1.11 [0.97-1.26]
24	*2q35*	rs12612347	2: 218765583	A	G	620/1295/706	0.48	481/1012/490	0.50	1.79E-01	1.06 [0.97-1.15]	138/342/165	0.48	7.71E-01	0.98 [0.87-1.11]	286/583/284	0.50	1.67E-01	1.07 [0.97-1.18]
25	*ATG16L1*	rs3828309	2: 233845149	T	C	572/1329/719	0.47	391/983/613	0.44	7.99E-03	0.89 [0.82-0.97]	127/333/186	0.45	2.56E-01	0.93 [0.82-1.05]	229/579/350	0.45	5.19E-02	0.91 [0.82-1.00]
26	*ATG16L1*	rs2241880	2: 233848107	T	C	572/1330/719	0.47	391/986/618	0.44	5.86E-03	0.89 [0.82-0.97]	128/333/189	0.45	2.22E-01	0.93 [0.82-1.05]	228/580/352	0.45	4.11E-02	0.90 [0.82-1.00]
27	*BSN*	rs9858542	3: 49676987	A	G	215/1014/1384	0.28	169/829/989	0.29	6.75E-02	1.09 [0.99-1.19]	56/266/325	0.29	2.57E-01	1.08 [0.95-1.24]	99/478/579	0.29	1.52E-01	1.08 [0.97-1.21]
28	*FLJ44290*	rs9870678	3: 57497990	G	A	439/1334/841	0.42	336/954/702	0.41	1.49E-01	0.94 [0.86-1.02]	106/299/242	0.39	6.55E-02	0.89 [0.79-1.01]	195/561/404	0.41	2.84E-01	0.95 [0.86-1.05]
29	*CADM2*	rs7611991	3: 85842248	A	G	174/985/1458	0.25	122/755/1088	0.25	9.58E-01	1.00 [0.91-1.10]	37/244/361	0.25	6.04E-01	0.96 [0.84-1.11]	74/434/631	0.26	9.41E-01	1.00 [0.90-1.12]
30	*3q24*	rs1462651	3: 149236246	T	C	70/650/1879	0.15	49/467/1473	0.14	1.83E-01	0.92 [0.82-1.04]	8/144/498	0.12	8.33E-03	0.78 [0.65-0.94]	39/267/849	0.15	7.69E-01	0.98 [0.85-1.12]
31	*4q13.1*	rs9993022	4: 59606282	T	C	1/142/2464	0.03	3/131/1859	0.03	6.22E-02	1.25 [0.99-1.59]	1/50/599	0.04	1.94E-02	1.47 [1.06-2.03]	1/70/1087	0.03	4.05E-01	1.13 [0.85-1.51]
32	*5p13.1*	rs4613763	5: 40428485	C	T	56/637/1929	0.14	33/481/1479	0.14	4.43E-01	0.95 [0.85-1.08]	13/160/474	0.14	9.33E-01	1.01 [0.85-1.20]	18/274/869	0.13	2.81E-01	0.92 [0.80-1.07]
33	*5p13.1*	rs1992662	5: 40429609	C	T	275/1109/1237	0.32	197/875/924	0.32	8.86E-01	1.01 [0.92-1.10]	66/279/305	0.32	9.82E-01	1.00 [0.88-1.14]	115/513/533	0.32	7.63E-01	1.02 [0.92-1.13]
34	*5p13.1*	rs17234657	5: 40437266	G	T	57/638/1927	0.14	33/481/1482	0.14	3.82E-01	0.95 [0.84-1.07]	13/160/477	0.14	9.76E-01	1.00 [0.84-1.19]	18/274/869	0.13	2.53E-01	0.92 [0.80-1.06]
35	*5p13.1*	rs1992660	5: 40450824	G	A	382/1221/1018	0.38	292/967/737	0.39	3.35E-01	1.04 [0.96-1.14]	107/308/235	0.40	1.29E-01	1.10 [0.97-1.25]	161/565/435	0.38	7.83E-01	1.01 [0.92-1.12]
36	*5p13.1*	rs9292777	5: 40473705	C	T	388/1214/1020	0.38	291/967/735	0.39	3.72E-01	1.04 [0.96-1.13]	105/310/234	0.40	1.61E-01	1.09 [0.97-1.24]	160/564/435	0.38	8.77E-01	1.01 [0.91-1.12]

37	*5p13.1*	rs1553575	5: 40538689	A	G	308/1150/1150	0.34	227/904/842	0.34	5.77E-01	1.03 [0.94-1.12]	61/287/291	0.32	2.08E-01	0.92 [0.81-1.05]	140/549/462	0.36	7.01E-02	1.10 [0.99-1.22]
38	*S100Z*	rs7712957	5: 76174452	C	T	15/400/2206	0.08	21/370/1598	0.10	3.77E-04	1.29 [1.12-1.49]	9/120/520	0.11	5.41E-03	1.33 [1.09-1.63]	8/227/920	0.11	1.13E-03	1.32 [1.12-1.55]
39	*SLC22A4*	rs1050152	5: 131704219	T	C	433/1259/917	0.41	319/953/723	0.40	4.10E-01	0.97 [0.89-1.05]	97/306/247	0.38	1.37E-01	0.91 [0.80-1.03]	192/554/414	0.40	8.11E-01	0.99 [0.89-1.09]
40	*SLC22A4*	rs2188962	5: 131798704	T	C	416/1263/934	0.40	308/943/734	0.39	4.27E-01	0.97 [0.89-1.05]	97/300/250	0.38	2.08E-01	0.92 [0.81-1.05]	184/549/420	0.40	7.93E-01	0.99 [0.89-1.09]
41	*SLC22A4*	rs2522057	5: 131829846	G	C	459/1244/867	0.42	296/932/723	0.39	3.97E-03	0.88 [0.81-0.96]	92/297/250	0.38	4.02E-03	0.83 [0.73-0.94]	179/539/410	0.40	6.42E-02	0.91 [0.82-1.01]
42	*IRGM*	rs13361189	5: 150203580	C	T	10/349/2260	0.07	13/280/1702	0.08	2.54E-01	1.10 [0.94-1.28]	4/85/560	0.07	8.80E-01	1.02 [0.80-1.29]	8/163/990	0.08	3.04E-01	1.10 [0.92-1.33]
43	*IRGM*	rs4958847	5: 150219780	A	G	27/496/2095	0.11	33/417/1546	0.12	1.61E-02	1.17 [1.03-1.34]	11/127/512	0.11	3.18E-01	1.10 [0.91-1.34]	20/240/901	0.12	4.62E-02	1.17 [1.00-1.36]
44	*IRGM*	rs11747270	5: 150239060	G	A	10/345/2262	0.07	12/275/1702	0.08	3.19E-01	1.08 [0.93-1.27]	4/85/559	0.07	7.99E-01	1.03 [0.81-1.31]	7/158/991	0.07	4.68E-01	1.07 [0.89-1.29]
45	*AK097548*	rs1363670	5: 158716689	G	C	79/776/1754	0.18	64/523/1406	0.16	4.84E-02	0.90 [0.80-1.00]	23/169/458	0.17	2.49E-01	0.91 [0.77-1.07]	36/302/820	0.16	6.41E-02	0.88 [0.77-1.01]
46	*IL12B*	rs10045431	5: 158747111	A	C	220/1060/1316	0.29	142/740/1080	0.26	3.15E-03	0.87 [0.79-0.95]	39/248/354	0.25	1.36E-02	0.84 [0.73-0.96]	85/426/630	0.26	1.40E-02	0.87 [0.78-0.97]
47	*IL12B*	rs6887695	5: 158755223	C	G	216/1031/1374	0.28	201/833/960	0.31	1.37E-03	1.16 [1.06-1.27]	73/275/302	0.32	1.42E-03	1.24 [1.09-1.41]	106/485/568	0.30	5.53E-02	1.11 [1.00-1.24]
48	*SLC22A23*	rs17309827	6: 3378317	G	T	365/1280/976	0.38	302/943/748	0.39	6.48E-01	1.02 [0.94-1.11]	99/305/245	0.39	7.87E-01	1.02 [0.90-1.15]	173/551/435	0.39	7.71E-01	1.02 [0.92-1.12]
49	*LYRM4*	rs12529198	6: 5096246	G	A	12/309/2300	0.06	3/260/1733	0.07	5.48E-01	1.05 [0.89-1.24]	3/85/562	0.07	3.96E-01	1.11 [0.87-1.41]	0/151/1010	0.07	8.05E-01	1.03 [0.84-1.25]
50	*CDKAL1*	rs6908425	6: 20836710	T	C	124/858/1638	0.21	75/617/1297	0.19	3.09E-02	0.89 [0.81-0.99]	23/215/411	0.20	4.28E-01	0.94 [0.81-1.09]	47/344/764	0.19	3.32E-02	0.87 [0.77-0.99]
51	*6q21*	rs7746082	6: 106541962	C	G	205/1062/1352	0.28	178/800/1006	0.29	2.78E-01	1.05 [0.96-1.15]	52/255/337	0.28	8.70E-01	0.99 [0.86-1.13]	113/465/577	0.30	1.09E-01	1.09 [0.98-1.22]
52	*6q23.3*	rs6927210	6: 138117846	T	C	600/1294/692	0.48	456/983/539	0.48	7.62E-01	0.99 [0.91-1.07]	149/319/177	0.48	8.01E-01	0.98 [0.87-1.11]	264/573/313	0.48	7.79E-01	0.99 [0.89-1.09]
53	*6q23.3*	rs946227	6: 138124455	T	C	402/1222/991	0.39	312/895/786	0.38	5.38E-01	0.97 [0.89-1.06]	97/293/260	0.37	3.97E-01	0.95 [0.84-1.07]	186/515/457	0.38	7.18E-01	0.98 [0.89-1.09]
54	*FGFR1OP*	rs2301436	6: 167357978	A	G	602/1350/665	0.49	446/996/534	0.48	3.31E-01	0.96 [0.88-1.04]	159/311/176	0.49	9.42E-01	1.00 [0.88-1.12]	243/598/308	0.47	1.94E-01	0.94 [0.85-1.03]
55	*7p12.2*	rs1456893	7: 50240218	G	A	226/1066/1327	0.29	145/792/1010	0.28	2.11E-01	0.94 [0.86-1.03]	47/270/316	0.29	8.72E-01	0.99 [0.86-1.13]	79/462/592	0.27	1.54E-01	0.92 [0.83-1.03]
56	*MDR1*	rs3789243*	7: 87058822	C	T	646/1260/700	0.49	534/935/521	0.50	1.95E-01	1.06 [0.97-1.15]	159/319/169	0.49	8.65E-01	1.01 [0.89-1.14]	333/529/296	0.52	3.49E-02	1.11 [1.01-1.23]
57	*7q31.33*	rs6947579	7: 125320242	G	C	243/1076/1295	0.30	192/829/964	0.31	4.84E-01	1.03 [0.94-1.13]	60/261/324	0.30	8.10E-01	0.98 [0.86-1.12]	109/489/559	0.31	5.55E-01	1.03 [0.93-1.15]
58	*7q36.1*	rs7807268	7: 147888981	G	C	526/1327/755	0.46	408/1007/577	0.46	8.87E-01	1.01 [0.93-1.09]	133/333/183	0.46	7.28E-01	1.02 [0.90-1.15]	240/586/332	0.46	7.37E-01	1.02 [0.92-1.12]
59	*7q36.1*	rs12704036	7: 147889094	T	C	233/1150/1204	0.31	198/800/994	0.30	2.12E-01	0.94 [0.86-1.03]	60/276/312	0.31	6.38E-01	0.97 [0.85-1.11]	123/444/593	0.30	1.96E-01	0.93 [0.84-1.04]
60	*HNF4G*	rs830772	8: 76515133	T	G	69/735/1804	0.17	60/563/1349	0.17	4.64E-01	1.04 [0.93-1.16]	29/178/430	0.19	1.29E-01	1.13 [0.96-1.33]	30/334/788	0.17	6.98E-01	1.03 [0.90-1.17]
61	*8q24.13*	rs1551398	8: 126609233	C	T	372/1190/1055	0.37	273/918/795	0.37	9.27E-01	1.00 [0.91-1.09]	71/310/265	0.35	1.89E-01	0.92 [0.81-1.04]	168/525/463	0.37	8.10E-01	1.01 [0.92-1.12]
62	*8q24.13*	rs4871612	8: 126609769	T	C	88/825/1685	0.19	84/601/1276	0.20	6.82E-01	1.02 [0.92-1.14]	22/201/414	0.19	9.78E-01	1.00 [0.85-1.17]	55/340/748	0.20	6.72E-01	1.03 [0.91-1.16]
63	*JAK2*	rs10758669	9: 4971602	C	A	327/1183/1109	0.35	262/953/773	0.37	3.96E-02	1.09 [1.00-1.19]	79/307/260	0.36	5.35E-01	1.04 [0.92-1.18]	165/551/442	0.38	1.32E-02	1.14 [1.03-1.26]
64	*JAK2*	rs10974944	9: 5060831	G	C	183/1028/1397	0.27	148/832/1013	0.28	9.36E-02	1.08 [0.99-1.19]	43/271/334	0.28	5.51E-01	1.04 [0.91-1.20]	95/501/564	0.30	6.14E-03	1.16 [1.04-1.30]
65	*9q32*	rs7868736	9: 115568004	T	C	154/1028/1438	0.25	168/797/1008	0.29	5.77E-04	1.18 [1.07-1.29]	52/264/329	0.29	2.64E-02	1.17 [1.02-1.34]	106/446/592	0.29	3.17E-03	1.18 [1.06-1.32]
66	*TNFSF15*	rs4263839	9: 116606261	A	G	269/1154/1193	0.32	198/881/907	0.32	8.47E-01	0.99 [0.91-1.08]	68/290/287	0.33	6.39E-01	1.03 [0.91-1.17]	117/501/538	0.32	6.38E-01	0.98 [0.88-1.08]
67	*TNFSF15*	rs7869487	9: 116620735	C	T	258/1129/1225	0.31	196/852/939	0.31	8.49E-01	0.99 [0.91-1.08]	63/284/301	0.32	9.19E-01	1.01 [0.88-1.15]	118/478/558	0.31	6.33E-01	0.97 [0.88-1.08]
68	*CARD9*	rs10870077	9: 138383712	G	C	481/1289/844	0.43	363/969/645	0.43	8.57E-01	0.99 [0.91-1.08]	116/318/208	0.43	8.86E-01	0.99 [0.88-1.12]	217/560/375	0.43	9.45E-01	1.00 [0.91-1.11]
69	*10p15.1*	rs6601764	10: 3852542	C	T	486/1278/843	0.43	371/969/639	0.43	9.42E-01	1.00 [0.92-1.09]	126/313/209	0.44	7.74E-01	1.02 [0.90-1.15]	210/563/374	0.43	8.08E-01	0.99 [0.89-1.09]
70	*CCNY*	rs3936503	10: 35589263	A	G	270/1090/1257	0.31	205/876/906	0.32	2.13E-01	1.06 [0.97-1.16]	59/299/289	0.32	4.52E-01	1.05 [0.92-1.20]	119/496/540	0.32	5.85E-01	1.03 [0.93-1.14]
71	*ZNF365*	rs10995271	10: 64108492	C	G	384/1297/935	0.39	337/933/696	0.41	1.76E-01	1.06 [0.97-1.15]	104/304/233	0.40	7.58E-01	1.02 [0.90-1.16]	202/543/398	0.41	1.11E-01	1.09 [0.98-1.20]
72	*ZNF365*	rs10761659	10: 64115570	A	G	517/1346/758	0.45	365/999/631	0.43	4.75E-02	0.92 [0.85-1.00]	126/330/194	0.45	6.81E-01	0.97 [0.86-1.10]	210/569/381	0.43	2.53E-02	0.89 [0.81-0.99]
73	*10q21.2*	rs224136	10: 64140681	T	C	53/710/1812	0.16	42/482/1454	0.14	4.27E-02	0.89 [0.79-1.00]	14/157/473	0.14	1.90E-01	0.89 [0.75-1.06]	23/276/851	0.14	4.09E-02	0.86 [0.75-0.99]
74	*DLG5*	rs1248696	10: 79286611	T	C	32/481/2105	0.10	17/345/1619	0.10	1.83E-01	0.91 [0.79-1.05]	9/100/535	0.09	1.85E-01	0.87 [0.70-1.07]	7/223/922	0.10	8.73E-01	0.99 [0.84-1.16]
75	*NKX2-3*	rs7081330	10: 101264455	G	A	431/1305/856	0.42	322/995/673	0.41	5.50E-01	0.97 [0.90-1.06]	99/337/213	0.41	7.03E-01	0.98 [0.86-1.11]	195/568/393	0.41	7.67E-01	0.99 [0.89-1.09]
76	*NKX2-3*	rs10883365	10: 101277754	G	A	573/1320/729	0.47	434/1000/562	0.47	8.25E-01	0.99 [0.91-1.08]	134/335/181	0.46	6.79E-01	0.97 [0.86-1.10]	261/568/332	0.47	9.47E-01	1.00 [0.90-1.10]
77	*NELL1*	rs1793004	11: 20655505	G	C	174/985/1441	0.26	103/730/1152	0.24	2.37E-02	0.90 [0.81-0.99]	36/256/354	0.25	8.55E-01	0.99 [0.86-1.14]	61/402/694	0.23	5.54E-03	0.85 [0.76-0.95]
78	*NELL1*	rs8176785	11: 20761862	G	A	147/1007/1461	0.25	101/720/1163	0.23	6.88E-02	0.91 [0.83-1.01]	33/237/376	0.23	2.87E-01	0.93 [0.80-1.07]	64/416/674	0.24	2.24E-01	0.93 [0.83-1.05]
79	*11q13.5*	rs7927894	11: 75978964	T	C	370/1214/1030	0.37	277/891/819	0.36	3.18E-01	0.96 [0.88-1.04]	93/296/258	0.37	9.33E-01	0.99 [0.88-1.13]	160/505/491	0.36	1.60E-01	0.93 [0.84-1.03]

80	*LRRK2*	rs11175593	12: 38888207	T	C	0/98/2510	0.02	0/87/1887	0.02	2.74E-01	1.18 [0.88-1.58]	0/29/611	0.02	3.70E-01	1.21 [0.80-1.84]	0/48/1102	0.02	5.47E-01	1.11 [0.79-1.58]
81	*ARHGAP9*	rs2228226	12: 56152088	G	C	213/1138/1242	0.30	176/817/979	0.30	5.92E-01	0.98 [0.89-1.07]	66/247/330	0.29	6.31E-01	0.97 [0.85-1.11]	96/484/567	0.29	5.48E-01	0.97 [0.87-1.08]
82	*12q15*	rs7134599	12: 66786342	A	G	401/1270/948	0.40	292/918/762	0.38	1.52E-01	0.94 [0.86-1.02]	86/315/241	0.38	2.84E-01	0.93 [0.82-1.06]	180/522/446	0.38	3.50E-01	0.95 [0.86-1.05]
83	*12q15*	rs1558744	12: 66790859	A	G	448/1293/878	0.42	333/948/697	0.41	3.39E-01	0.96 [0.88-1.04]	103/322/222	0.41	5.19E-01	0.96 [0.85-1.09]	201/543/404	0.41	6.08E-01	0.97 [0.88-1.08]
84	*C13orf31*	rs3764147	13: 43355925	G	A	190/972/1459	0.26	139/765/1086	0.26	6.53E-01	1.02 [0.93-1.12]	44/264/342	0.27	3.45E-01	1.07 [0.93-1.23]	80/433/642	0.26	9.12E-01	0.99 [0.89-1.11]
85	*12q22.2*	rs11617463*	13: 74229094	A	C	27/378/2165	0.08	39/290/1647	0.09	1.30E-01	1.12 [0.97-1.29]	14/94/538	0.09	2.35E-01	1.14 [0.92-1.40]	22/160/965	0.09	4.87E-01	1.06 [0.89-1.27]
86	*GPC5*	rs1931047	13: 92087164	C	T	4/101/2501	0.02	0/75/1919	0.02	4.74E-01	0.90 [0.67-1.21]	0/29/621	0.02	7.55E-01	1.07 [0.71-1.62]	0/39/1120	0.02	2.38E-01	0.80 [0.55-1.16]
87	*HERC2*	rs916977	15: 26186959	A	G	31/498/2093	0.11	31/475/1490	0.13	**4.49E-05**	1.30 [1.15-1.48]	8/164/478	0.14	1.25E-03	1.34 [1.12-1.61]	21/268/872	0.13	7.80E-04	1.29 [1.11-1.50]
88	*NOD2*	rs10521209	16: 49313210	G	T	451/1273/894	0.42	318/1001/672	0.41	6.78E-01	0.98 [0.90-1.07]	110/335/201	0.43	3.55E-01	1.06 [0.94-1.20]	176/575/409	0.40	1.97E-01	0.94 [0.85-1.04]
89	*NOD2*	rs2076756	16: 49314382	G	A	192/1018/1412	0.27	143/809/1025	0.28	3.06E-01	1.05 [0.96-1.15]	41/266/337	0.27	8.37E-01	1.02 [0.88-1.16]	86/476/588	0.28	1.96E-01	1.08 [0.96-1.20]
90	*FLJ44299*	rs8050910	16: 83696674	G	T	509/1281/793	0.45	349/971/654	0.42	3.35E-02	0.91 [0.84-0.99]	119/313/213	0.43	2.47E-01	0.93 [0.82-1.05]	207/574/365	0.43	2.63E-01	0.94 [0.86-1.04]
91	*STX8*	rs9895062	17: 9311348	G	A	16/292/2293	0.06	7/219/1763	0.06	4.60E-01	0.94 [0.79-1.11]	2/75/570	0.06	8.69E-01	0.98 [0.76-1.26]	4/126/1028	0.06	4.59E-01	0.92 [0.75-1.14]
92	*CCL18*	rs2015070	17: 31415896	A	G	38/450/2132	0.10	15/333/1626	0.09	1.76E-01	0.91 [0.79-1.04]	2/86/554	0.07	8.80E-04	0.68 [0.54-0.85]	10/209/929	0.10	9.32E-01	0.99 [0.84-1.17]
93	*ZPBP2*	rs2872507	17: 35294289	A	G	576/1277/754	0.47	399/956/610	0.45	6.32E-02	0.92 [0.85-1.00]	134/317/186	0.46	6.68E-01	0.97 [0.86-1.10]	232/546/366	0.44	5.06E-02	0.91 [0.82-1.00]
94	*STAT3*	rs744166	17: 37767727	C	T	425/1316/881	0.41	322/940/734	0.40	1.15E-01	0.93 [0.86-1.02]	95/313/242	0.39	8.63E-02	0.90 [0.79-1.02]	194/542/425	0.40	3.07E-01	0.95 [0.86-1.05]
95	*PTRF*	rs12948909	17: 37824128	C	A	145/984/1484	0.24	107/727/1150	0.24	4.61E-01	0.96 [0.88-1.06]	36/230/379	0.23	4.68E-01	0.95 [0.82-1.10]	64/420/670	0.24	5.53E-01	0.97 [0.86-1.08]
96	*TNRC6C*	rs4362447	17: 73545157	T	C	296/1097/1214	0.32	225/844/905	0.33	6.99E-01	1.02 [0.93-1.11]	79/265/299	0.33	7.32E-01	1.02 [0.90-1.17]	135/494/518	0.33	4.38E-01	1.04 [0.94-1.16]
97	*PTPN2*	rs2542151	18: 12769947	G	T	65/700/1844	0.16	64/562/1366	0.17	7.06E-02	1.11 [0.99-1.24]	15/172/462	0.16	7.61E-01	0.97 [0.82-1.15]	41/339/778	0.18	1.45E-02	1.18 [1.03-1.34]
98	*RSHL1*	rs8111071	19: 50999246	G	A	16/465/2128	0.10	20/333/1631	0.09	8.40E-01	0.99 [0.86-1.14]	7/108/533	0.09	9.03E-01	0.99 [0.80-1.22]	12/191/949	0.09	7.92E-01	0.98 [0.83-1.16]
99	*CARD8*	rs10418239	19: 53414637	G	C	315/1181/1125	0.35	256/929/803	0.36	9.17E-02	1.08 [0.99-1.17]	84/315/248	0.37	6.08E-02	1.13 [0.99-1.28]	141/549/466	0.36	2.41E-01	1.06 [0.96-1.18]
100	*NFATC2*	rs880324	20: 49487597	A	G	127/843/1642	0.21	102/678/1207	0.22	1.67E-01	1.07 [0.97-1.19]	28/225/396	0.22	6.08E-01	1.04 [0.90-1.21]	66/396/695	0.23	7.66E-02	1.11 [0.99-1.25]
101	*ARFRP1*	rs6011040	20: 61807850	A	G	231/1123/1238	0.31	185/827/953	0.30	9.05E-01	0.99 [0.91-1.09]	63/265/309	0.31	9.36E-01	1.01 [0.88-1.15]	106/484/556	0.30	8.57E-01	0.99 [0.89-1.10]
102	*21q21.1*	rs1736135	21: 15727091	C	T	474/1279/861	0.43	343/932/709	0.41	7.95E-02	0.93 [0.85-1.01]	115/307/225	0.41	4.74E-01	0.96 [0.84-1.08]	189/542/422	0.40	2.84E-02	0.89 [0.81-0.99]
103	*FLJ45139*	rs2836753	21: 39213057	T	C	356/1213/1029	0.37	271/920/802	0.37	7.16E-01	0.98 [0.90-1.07]	81/307/261	0.36	5.41E-01	0.96 [0.85-1.09]	163/532/464	0.37	9.78E-01	1.00 [0.90-1.11]
104	*FLJ45139*	rs2836754	21: 39213610	T	C	360/1224/1037	0.37	271/922/802	0.37	6.98E-01	0.98 [0.90-1.07]	81/308/261	0.36	5.33E-01	0.96 [0.85-1.09]	163/533/464	0.37	9.61E-01	1.00 [0.90-1.10]
105	*ICOSLG*	rs762421	21: 44439989	G	A	414/1236/964	0.39	292/977/723	0.39	7.72E-01	0.99 [0.91-1.08]	95/305/248	0.38	3.96E-01	0.95 [0.84-1.07]	173/576/410	0.40	8.08E-01	1.01 [0.92-1.12]
106	*NCF4*	rs4821544	22: 35588449	C	T	246/1078/1216	0.31	215/869/856	0.33	9.67E-03	1.13 [1.03-1.23]	58/283/298	0.31	8.28E-01	1.02 [0.89-1.16]	133/500/485	0.34	4.61E-03	1.17 [1.05-1.30]

Results with nominal significance ($p < 0.05$) are highlighted with dark grey boxes and significant results after Bonferroni correction for multiple testing ($p < 0.05/321$) are highlighted with black boxes and printed in bold letters. All SNPs had a call rate >95% and did not deviate from Hardy-Weinberg disequilibrium (HWE) in controls. Abbreviations: Nucleotide of the minor (A1) and major allele (A2), genotype counts (11/12/22), frequency of the minor allele (MAF), uncorrected p value from the allelic χ^2 test (p), odds ratio (OR) with 95% confidence interval (95% CI). *markers that deviated from HWE in cases ($p_{HWE} < 0.01$).