

Variation in *ITGB3* is Associated with Asthma and Sensitization to Mold Allergen in  
Four Populations

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Online Data Supplement

Supplementary Table E1. Linkage Disequilibrium (LD) in *ITGB3*. LD ( $r^2$ ) for every pair of SNPs in this study is shown for each of the four samples.

Supplementary Table E2. Number of cases and controls with genotype data. For each SNP and phenotype, #cases/#controls used in the association test is shown.

E1.

marker 1	marker 2	Hutterite Population	Madison Caucasian	Chicago Caucasian	Chicago African American
rs2317385	rs1009312	0.9902	0.9894	0.9933	0.9426
rs2317385	rs3892085	0.6404	0.4126	0.3208	0.1273
rs2317385	rs884696	0.0878	NA	0.0096	0.1756
rs2317385	rs2015729	0.0682	0.1436	0.296	0.3867
rs2317385	rs1000232	0.0817	0.1712	0.3765	0.4261
rs2317385	rs2292867	0.6416	0.5002	0.454	0.3269
rs2317385	rs5918	0.0725	0.0488	0.0308	0
rs2317385	rs5919	0.007	0.0001	0.0338	0.0736
rs2317385	rs2292864	0.642	0.4824	0.4209	0.2932
rs2317385	rs15908	0.0729	0.0781	0.0371	0.0788
rs2317385	rs4634	0.0874	0.0675	0.1214	0.1383
rs2317385	rs999323	0.0792	0.0769	0.1859	0.1512
rs2317385	rs11870252	0.0424	0.0015	0.0069	0.0137
rs2317385	rs3760372	0.0682	0.0299	0.0082	0.0044
rs2317385	rs3809863	0.0433	0.001	0.0068	0.0118
rs2317385	rs23141124	0.0231	0.0083	0.0135	0.0149
rs2317385	rs2317676	0.0343	0.0002	0.0522	0.087
rs2317385	rs2317677	0.0687	0.0225	0.0088	0.0002
rs1009312	rs3892085	0.6415	0.4104	0.2801	0.1297
rs1009312	rs884696	0.0849	NA	0.011	0.1681
rs1009312	rs2015729	0.0808	0.1292	0.275	0.3838
rs1009312	rs1000232	0.0914	0.157	0.3627	0.4285
rs1009312	rs2292867	0.6337	0.4995	0.4348	0.3133
rs1009312	rs5918	0.0651	0.0472	0.0335	0.0001
rs1009312	rs5919	0.0076	0.0003	0.0212	0.0798
rs1009312	rs2292864	0.6426	0.4651	0.395	0.2862
rs1009312	rs15908	0.0843	0.0681	0.0326	0.1133
rs1009312	rs4634	0.0961	0.0595	0.1216	0.1456
rs1009312	rs999323	0.0967	0.0694	0.1764	0.1572
rs1009312	rs11870252	0.0429	0.0007	0.0047	0.0166
rs1009312	rs3760372	0.0808	0.0214	0.01	0.0036
rs1009312	rs3809863	0.0437	0.0005	0.0034	0.0144
rs1009312	rs23141124	0.0214	0.008	0.0147	0.0111
rs1009312	rs2317676	0.0337	0	0.0424	0.0741
rs1009312	rs2317677	0.064	0.0192	0.0062	0.0014
rs3892085	rs884696	0.0506	NA	0.0455	0.0197
rs3892085	rs2015729	0.254	0.1626	0.1115	0.0493
rs3892085	rs1000232	0.2762	0.2005	0.1615	0.0688
rs3892085	rs2292867	0.9887	0.8211	0.5594	0.3389
rs3892085	rs5918	0.0387	0.0261	0.0229	0.0052
rs3892085	rs5919	0.0055	0.0129	0.0215	0.0156
rs3892085	rs2292864	0.9941	0.8934	0.6568	0.3792
rs3892085	rs15908	0.2597	0.146	0.0635	0.0567
rs3892085	rs4634	0.2843	0.2251	0.257	0.1366
rs3892085	rs999323	0.2796	0.2352	0.2368	0.1225
rs3892085	rs11870252	0.0297	0.0098	0.0084	0.0096
rs3892085	rs3760372	0.254	0.0557	0.016	0.0032
rs3892085	rs3809863	0.0296	0.0092	0.0093	0.0092

rs3892085	rs23141124	0.0137	0.0088	0.0029	0.0012
rs3892085	rs2317676	0.0237	0.0123	0.0203	0.0143
rs3892085	rs2317677	0.0328	0.0511	0.0412	0.0184
rs884696	rs2015729	0.4517	NA	0.3501	0.5231
rs884696	rs1000232	0.4921	NA	0.4203	0.5488
rs884696	rs2292867	0.0525	NA	0.0012	0.0065
rs884696	rs5918	0.849	NA	0.4422	0.3478
rs884696	rs5919	0.0022	NA	0.0136	0.0267
rs884696	rs2292864	0.0512	NA	0.0002	0.0235
rs884696	rs15908	0.448	NA	0.1602	0.1626
rs884696	rs4634	0.4897	NA	0.3586	0.3422
rs884696	rs999323	0.4851	NA	0.3221	0.2742
rs884696	rs11870252	0.242	NA	0.0059	0.0031
rs884696	rs3760372	0.4517	NA	0.0548	0.2274
rs884696	rs3809863	0.2533	NA	0.008	0.0042
rs884696	rs23141124	0.2411	NA	0.0995	0.0556
rs884696	rs2317676	0.3028	NA	0.0096	0.0463
rs884696	rs2317677	0.2213	NA	0.2217	0.3453
rs2015729	rs1000232	0.9149	0.7608	0.8254	0.8846
rs2015729	rs2292867	0.256	0.1981	0.2308	0.1829
rs2015729	rs5918	0.4141	0.2479	0.1628	0.2123
rs2015729	rs5919	0.0317	0.1307	0.1525	0.1492
rs2015729	rs2292864	0.2563	0.1643	0.1743	0.1535
rs2015729	rs15908	0.9994	0.8781	0.3796	0.2913
rs2015729	rs4634	0.9138	0.5452	0.5174	0.5006
rs2015729	rs999323	0.911	0.6385	0.5471	0.5544
rs2015729	rs11870252	0.1811	0.1176	0.1122	0.0651
rs2015729	rs3760372	0.9994	0.0195	0.0266	0.1349
rs2015729	rs3809863	0.1866	0.1134	0.1146	0.0651
rs2015729	rs23141124	0.1036	0.0818	0.0418	0.0258
rs2015729	rs2317676	0.1348	0.1148	0.1414	0.0741
rs2015729	rs2317677	0.0644	0.0677	0.0539	0.1713
rs1000232	rs2292867	0.2751	0.2517	0.304	0.2317
rs1000232	rs5918	0.4538	0.3409	0.2093	0.2208
rs1000232	rs5919	0.0114	0.0043	0.0123	0.053
rs1000232	rs2292864	0.2765	0.2182	0.2415	0.1943
rs1000232	rs15908	0.9165	0.6798	0.2832	0.2297
rs1000232	rs4634	0.993	0.7755	0.6565	0.5725
rs1000232	rs999323	0.9963	0.8428	0.6944	0.6338
rs1000232	rs11870252	0.1028	0.0087	0.0041	0.0019
rs1000232	rs3760372	0.9149	0.053	0.0373	0.155
rs1000232	rs3809863	0.1018	0.0087	0.0015	0.0019
rs1000232	rs23141124	0.1168	0.0975	0.0485	0.026
rs1000232	rs2317676	0.1448	0.0096	0.0159	0.018
rs1000232	rs2317677	0.0654	0.1272	0.1167	0.2028
rs2292867	rs5918	0.0403	0.0292	0.0421	0.0365
rs2292867	rs5919	0.0058	0.0002	0	0.0036
rs2292867	rs2292864	0.9942	0.9156	0.8589	0.8007
rs2292867	rs15908	0.2599	0.1886	0.0749	0.0899
rs2292867	rs4634	0.2838	0.2234	0.3201	0.2407
rs2292867	rs999323	0.2829	0.2855	0.3923	0.3359
rs2292867	rs11870252	0.0298	0.0002	0.002	0.0038

rs2292867	rs3760372	0.256	0.0622	0.01	0.0531
rs2292867	rs3809863	0.0299	0	0.0033	0.0047
rs2292867	rs23141124	0.0137	0.0111	0.0055	0.003
rs2292867	rs2317676	0.0236	0.0009	0.0031	0.001
rs2292867	rs2317677	0.0313	0.0601	0.0327	0.003
rs5918	rs5919	0.0021	0.0139	0.0225	0.0345
rs5918	rs2292864	0.0384	0.0275	0.036	0.0281
rs5918	rs15908	0.4067	0.2806	0.0393	0.1774
rs5918	rs4634	0.4512	0.3659	0.3246	0.4025
rs5918	rs999323	0.4429	0.378	0.3049	0.3466
rs5918	rs11870252	0.2476	0.0101	0.0105	0.0181
rs5918	rs3760372	0.4141	0.269	0.2205	0.4416
rs5918	rs3809863	0.2418	0.0126	0.0122	0.0181
rs5918	rs23141124	0.2856	0.2901	0.1993	0.1298
rs5918	rs2317676	0.3002	0.0116	0.0152	0.0334
rs5918	rs2317677	0.167	0.2175	0.1614	0.3356
rs5919	rs2292864	0.006	0.0149	0.0313	0.031
rs5919	rs15908	0.0316	0.1397	0.0835	0.0092
rs5919	rs4634	0.0119	0.0407	0.0717	0.0823
rs5919	rs999323	0.012	0.0149	0.0293	0.0426
rs5919	rs11870252	0.1772	0.8754	0.6057	0.4638
rs5919	rs3760372	0.0317	0.044	0.0654	0.0752
rs5919	rs3809863	0.1883	0.8731	0.6594	0.4624
rs5919	rs23141124	0.0025	0.0004	0.0037	0.003
rs5919	rs2317676	0.0012	0.8779	0.8573	0.6515
rs5919	rs2317677	0.003	0.0387	0.0367	0.0313
rs2292864	rs15908	0.2601	0.151	0.0506	0.0576
rs2292864	rs4634	0.2826	0.2502	0.3938	0.3426
rs2292864	rs999323	0.2794	0.2582	0.3601	0.3181
rs2292864	rs11870252	0.0301	0.014	0.0136	0.0066
rs2292864	rs3760372	0.2563	0.0543	0.0041	0.0713
rs2292864	rs3809863	0.0299	0.0136	0.015	0.0061
rs2292864	rs23141124	0.0135	0.0108	0.0045	0.0005
rs2292864	rs2317676	0.024	0.0148	0.0301	0.0198
rs2292864	rs2317677	0.0331	0.0506	0.0201	0.0112
rs15908	rs4634	0.9157	0.6261	0.2116	0.3406
rs15908	rs999323	0.913	0.7135	0.2185	0.3058
rs15908	rs11870252	0.1759	0.1183	0.0407	0.0319
rs15908	rs3760372	0.9994	0.0126	0.0102	0.0986
rs15908	rs3809863	0.1834	0.1117	0.0448	0.0312
rs15908	rs23141124	0.1074	0.0971	0.0421	0.0336
rs15908	rs2317676	0.1324	0.1234	0.0593	0.0025
rs15908	rs2317677	0.0631	0.0604	0.0004	0.1503
rs4634	rs999323	0.9993	0.8921	0.9222	0.9121
rs4634	rs11870252	0.0955	0.0393	0.0466	0.0406
rs4634	rs3760372	0.9138	0.0463	0.1065	0.3733
rs4634	rs3809863	0.0953	0.0382	0.0504	0.0381
rs4634	rs23141124	0.1189	0.0882	0.0721	0.053
rs4634	rs2317676	0.1459	0.0397	0.0654	0.0718
rs4634	rs2317677	0.0696	0.0874	0.11	0.3034
rs999323	rs11870252	0.0943	0.0115	0.0124	0.0068
rs999323	rs3760372	0.911	0.0461	0.0903	0.3394

rs999323	rs3809863	0.0949	0.0121	0.0157	0.0068
rs999323	rs23141124	0.1128	0.1078	0.0646	0.0462
rs999323	rs2317676	0.1493	0.0137	0.021	0.0348
rs999323	rs2317677	0.0707	0.1016	0.0849	0.2532
rs11870252	rs3760372	0.1811	0.0384	0.0385	0.036
rs11870252	rs3809863	0.9999	0.9997	0.9979	0.9999
rs11870252	rs23141124	0.0047	0.0002	0.0011	0.0019
rs11870252	rs2317676	0.8514	0.9205	0.5529	0.4175
rs11870252	rs2317677	0.0312	0.0429	0.0435	0.0139
rs3760372	rs3809863	0.1866	0.0397	0.0413	0.037
rs3760372	rs23141124	0.1036	0.0976	0.0494	0.0676
rs3760372	rs2317676	0.1348	0.0384	0.0425	0.0739
rs3760372	rs2317677	0.0644	0.7063	0.7874	0.7222
rs3809863	rs23141124	0.0042	0.0012	0.0014	0.0019
rs3809863	rs2317676	0.8497	0.9176	0.6066	0.4043
rs3809863	rs2317677	0.0335	0.0437	0.051	0.0139
rs23141124	rs2317676	0.0035	0.0004	0.0033	0.0027
rs23141124	rs2317677	0.2334	0.0809	0.0564	0.0616
rs2317676	rs2317677	0.0325	0.046	0.0384	0.0457

E2.

rs#	Hutterite		Madison		Chicago Caucasian		Chicago African American	
	BHR	+SPT <sub>mold</sub>	Asthma	+SPT <sub>mold</sub>	Asthma	+SPT <sub>mold</sub>	Asthma	+SPT <sub>mold</sub>
rs2317385	132/372	65/532	105/86	137/194	103/175	41/59	161/142	53/103
rs1009312	135/367	65/527	106/79	138/188	106/185	42/62	182/169	60/117
rs3892085	139/379	66/545	110/87	142/202	102/185	40/59	175/168	54/116
rs884696	134/374	64/537	NA	NA	98/179	39/57	176/154	60/111
rs2015729	139/363	63/527	110/84	139/198	102/175	39/60	171/160	56/110
rs1000232	131/361	63/518	102/79	133/185	99/177	37/60	171/157	55/111
rs2292867	141/384	68/552	107/85	139/196	104/184	40/61	180/168	58/117
rs5918	131/374	60/529	109/86	142/201	100/180	38/59	177/162	57/115
rs5919	139/379	64/543	106/82	133/188	102/184	40/60	177/154	59/114
rs2292864	139/377	65/538	112/81	142/198	105/184	41/62	178/169	57/116
rs15908	142/380	68/547	93/82	123/181	97/129	36/58	163/141	57/103
rs4634	138/372	62/538	95/69	128/168	104/182	40/61	162/160	51/106
rs999323	138/371	64/539	106/81	138/195	101/179	38/61	174/166	56/113
rs11870252	132/371	64/526	107/87	142/198	103/184	40/60	172/174	55/112
rs3760372	139/363	63/527	112/85	142/201	104/124	41/61	171/155	54/112
rs3809863	126/339	60/487	106/85	142/196	105/182	41/62	173/169	56/112
ss23141124	130/372	64/531	108/84	136/195	87/165	31/56	177/168	57/115
rs2317676	127/349	61/495	113/87	146/205	104/181	41/61	181/175	58/118
rs2317677	141/381	67/547	105/79	138/190	101/179	38/60	163/155	54/105