

## Online Supplementary Material

**Supplementary Table 1:** Genetic association between SNPs in the UBAC2 genetic locus and Behçet's disease using a pooled DNA GWAS in Turkish patients and controls.

SNP	Position	Chromosome	Cytoband	Allele Frequency		P value	Symbol
				Case	Control		
rs7983415	98578414	13	q32.3	0.388917	0.388628	0.575449	
rs1410285	98581506	13	q32.3	0.723702	0.671412	0.174189	
rs2195	98581669	13	q32.3	0.765711	0.655672	0.201238	
rs7320894	98594621	13	q32.3	0.44797	0.402192	0.279499	
rs7991143	98595930	13	q32.3	0.888815	0.901708	0.703048	
rs7989020	98600789	13	q32.3	0.3486	0.354816	0.842094	
rs9300532	98601554	13	q32.3	0.677815	0.639185	0.107059	
rs2094502	98601837	13	q32.3	0.314719	0.282789	0.907507	
rs7317996	98603320	13	q32.3	0.615431	0.681593	0.157811	
rs9557174	98625251	13	q32.3	0.791812	0.736572	0.948077	
rs9554563	98625393	13	q32.3	NA	NA	0.408985	
rs9517637	98639816	13	q32.3	0.4389	0.511375	0.129487	
rs9517644	98644900	13	q32.3	0.459866	0.370964	0.0026998	
rs11069357	98647631	13	q32.3	0.481508	0.362615	0.00592414	
rs7139964	98668215	13	q32.3	0.426151	0.462535	0.0888474	UBAC2
rs731955	98668641	13	q32.3	0.495708	0.413224	0.38405	UBAC2
rs984477	98670434	13	q32.3	0.586116	0.436105	0.0101289	UBAC2
rs9513584	98674282	13	q32.3	0.566211	0.305658	4.05E-06	UBAC2
rs7332672	98675472	13	q32.3	0.464941	0.514373	0.295085	UBAC2
rs1927732	98676740	13	q32.3	0.976639	0.97232	0.69581	UBAC2
rs9554573	98684763	13	q32.3	0.525829	0.691523	0.00677643	UBAC2
rs7139654	98690889	13	q32.3	0.254134	0.309973	0.218548	UBAC2 UNQ1829
rs6491493	98698421	13	q32.3	0.478291	0.341702	0.0242623	UBAC2
rs12857217	98714437	13	q32.3	0.789756	0.732227	0.218526	UBAC2
rs9517668	98721841	13	q32.3	NA	NA	0.0463191	UBAC2
rs7999348	98730923	13	q32.3	NA	NA	0.00060989	UBAC2
rs1160294	98731595	13	q32.3	0.423708	0.36878	0.546699	UBAC2
rs10851103	98733182	13	q32.3	NA	NA	0.295078	UBAC2
rs2182954	98735083	13	q32.3	NA	NA	0.840973	UBAC2
rs2230343	98746098	13	q32.3	0.132181	0.094955	0.895557	UBAC2 EBI2

rs2149263	98749951	13	q32.3	NA	NA	0.973296	EBI2 UBAC2
rs9557193	98750022	13	q32.3	0.303618	0.344603	0.49972	EBI2 UBAC2
rs17472050	98753399	13	q32.3	0.664962	0.780429	0.427911	UBAC2 EBI2
rs1927728	98753534	13	q32.3	NA	NA	0.126471	UBAC2 EBI2
rs9554581	98760893	13	q32.3	0.37457	0.283675	0.0334353	UBAC2
rs7139916	98773899	13	q32.3	NA	NA	0.0528368	UBAC2
rs3742127	98777453	13	q32.3	0.839912	0.811561	0.471943	UBAC2
rs17575643	98782676	13	q32.3	0.76022	0.862521	0.00074619	UBAC2
rs7323390	98795969	13	q32.3	0.746618	0.771698	0.269693	UBAC2
rs727263	98802109	13	q32.3	0.869498	0.958945	0.00900337	FKSG29 UBAC2
rs731150	98805551	13	q32.3	0.279734	0.303787	0.255731	UBAC2
rs7332161	98821470	13	q32.3	0.749684	0.835976	0.0462117	UBAC2
rs10508037	98824757	13	q32.3	0.254781	0.265761	0.30363	UBAC2
rs9517700	98825813	13	q32.3	0.80817	0.748051	0.104989	UBAC2
rs8181880	98825958	13	q32.3	0.230552	0.273331	0.084747	UBAC2
rs9517701	98827541	13	q32.3	0.273846	0.202291	0.188197	UBAC2
rs7325747	98827933	13	q32.3	0.847532	0.914254	0.106849	UBAC2
rs912131	98830347	13	q32.3	0.593563	0.649129	0.127296	UBAC2
rs912130	98830403	13	q32.3	NA	NA	0.00074075	UBAC2
rs9517704	98831062	13	q32.3	NA	NA	0.0516989	UBAC2
rs912129	98831653	13	q32.3	0.285816	0.237478	0.249962	UBAC2
rs4772190	98832117	13	q32.3	0.79688	0.810241	0.443347	UBAC2
rs9557205	98833273	13	q32.3	0.755556	0.741014	0.985555	UBAC2
rs9557206	98834214	13	q32.3	0.398213	0.403208	0.91874	UBAC2
rs9557207	98834419	13	q32.3	0.791734	0.718204	0.128592	UBAC2
rs9557210	98845505	13	q32.3	0.71843	0.740594	0.376059	UBAC2
rs16956535	98846062	13	q32.3	0.924535	0.911015	0.757067	UBAC2
rs2390277	98856520	13	q32.3	0.321421	0.401717	0.266275	UBAC2
rs2892976	98856562	13	q32.3	0.565645	0.725574	0.0188883	UBAC2

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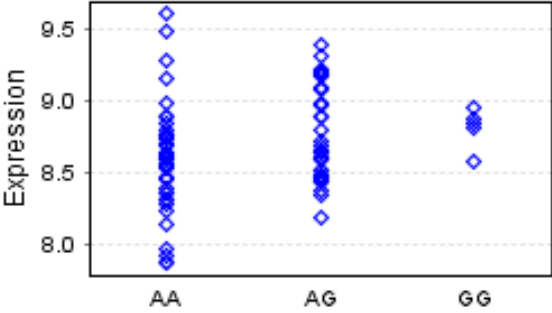
NA, not available

**Supplementary Table 2: Conditional haplotype analysis reveals a suggestive evidence for an independent effect of rs7999348 within *UBAC2* in Behçet's disease. Each SNP was tested for an independent genetic effect against the haplotype background formed by the remaining SNPs using PLINK.**

Conditioning SNP	LRT	df	P value
rs9517644	NA	0	1
rs11069357	0.455	1	0.5
rs984477	0.642	1	0.42
rs9513584	NA	0	1
rs9554573	NA	0	1
rs6491493	NA	0	1
rs9517668	NA	0	1
rs7999348	3.25	1	0.071
rs9554581	NA	0	1
rs17575643	1.42	1	0.23
rs727263	NA	0	1
rs7332161	NA	0	1
rs912130	NA	0	1
rs2892976	1.42	2	0.49

LRT, likelihood ratio test; df, degrees of freedom; NA, not applicable (no valid model for comparison)

# Supplementary Figure 1



**Supplementary Figure 1:** *UBAC2* expression in lymphoblastoid cell lines included in Genvar database is influenced by rs2181502 ( $r^2=0.88$  with rs799934) ( $P=0.03$ ), consistent with our findings in the Behçet's disease-associated risk allele in rs7999348.