

**Table S3 LCL evQTLs and interacting SNPs. P-value indicates the linear regression significance between interacting SNP genotype and gene expression of evQTL gene (see Methods). Two genes close to interacting SNPs at *trans*-genomic location are given.**

LCL evQTL gene	evSNP	evSNP position	Interacting SNP	Interacting SNP position	P-value	<i>trans</i> -located gene
<i>PTER</i>	rs7913889	chr10:16559381	rs7909832	chr10:16556710	8.66E-77	
<i>ERAP2</i>	rs6880490	chr5:96185549	rs11135484	chr5:96221889	4.76E-45	
<i>BBS2</i>	rs14306	chr16:56510299	rs13337155	chr16:56504724	5.77E-39	
<i>IPO8</i>	rs1371053	chr12:30845705	rs7968343	chr12:30817004	6.16E-38	
<i>WDR41</i>	rs4704434	chr5:76890568	rs441102	chr5:76738970	4.31E-33	
<i>SEMA4G</i>	rs752974	chr10:102762256	rs12571302	chr10:102742763	4.13E-32	
<i>N4BP2</i>	rs6824761	chr4:40054818	rs4974962	chr4:40115239	4.92E-29	
<i>PPIL3</i>	rs3731714	chr2:202060820	rs7606251	chr2:201736734	7.47E-28	
<i>PILRB</i>	rs5015756	chr7:100013457	rs7341507	chr7:99951315	9.06E-27	
<i>TIMM10</i>	rs514385	chr11:57306011	rs3851118	chr11:57280951	1.36E-23	
<i>LOC440160</i>	rs12052294	chr2:132433268	rs6720375	chr2:132440073	1.15E-21	
<i>C12ORF28</i>	rs775439	chr12:70096374	rs811822	chr12:70107646	1.35E-20	
<i>TIMM22</i>	rs2586306	chr17:909451	rs2241931	chr17:909653	2.05E-20	
<i>SERPINB10</i>	rs967538	chr18:61509075	rs6567399	chr18:61544546	1.60E-19	
<i>BTN3A2</i>	rs742090	chr6:26415637	rs3799378	chr6:26404374	4.29E-19	
<i>SCD5</i>	rs2125171	chr4:83835698	rs6830527	chr4:83798446	7.00E-18	
<i>GOLPH4</i>	rs13100726	chr3:167707035	rs9873288	chr3:167726096	2.77E-17	
<i>NUDT2</i>	rs1337593	chr9:34334015	rs7032924	chr9:34167694	2.59E-16	
<i>LOC642290</i>	rs7255207	chr19:28385923	rs7258333	chr19:28269920	8.94E-16	
<i>NMNAT3</i>	rs4367021	chr3:139420218	rs9822952	chr3:139385257	1.44E-15	
<i>IRF5</i>	rs10156169	chr7:128684571	rs8043	chr7:128607384	9.33E-15	
<i>IKZF1</i>	rs7789635	chr7:50473610	rs10216316	chr7:50462418	5.65E-14	
<i>C12ORF54</i>	rs2731094	chr12:48881661	rs12318285	chr12:48905575	8.20E-14	
<i>LEMDD3</i>	rs11175680	chr12:65605539	rs2133323	chr12:65577453	1.16E-13	
<i>MTRR</i>	rs327588	chr5:7908359	rs1801394	chr5:7870973	1.40E-12	
<i>WBSCR27</i>	rs13244770	chr7:73280691	rs4440516	chr7:73224041	3.61E-12	
<i>XYLT1</i>	rs4238652	chr16:17199665	rs7190386	chr16:17183373	4.25E-12	
<i>ITIH4</i>	rs2240915	chr3:52859526	rs17331178	chr3:52847544	5.13E-12	
<i>ATP13A1</i>	rs4808964	chr19:19603692	rs2304128	chr19:19746151	1.18E-11	
<i>KLHDC4</i>	rs2012475	chr16:87760814	rs2290019	chr16:87741662	2.95E-11	
<i>HCLS1</i>	rs4472078	chr3:121477634	rs12493927	chr3:121378927	7.57E-11	
<i>MTERFD2</i>	rs3815291	chr2:242032540	rs7559967	chr2:242006736	8.75E-10	
<i>HCG22</i>	rs1064191	chr6:31075375	rs2523857	chr6:31021504	2.12E-09	
<i>LOC650557</i>	rs1980495	chr6:32346794	rs3129878	chr6:32408735	3.03E-09	
<i>CDCP1</i>	rs6441894	chr3:45206579	rs7633169	chr3:45185519	1.21E-08	
<i>HLA-DPB1</i>	rs9277341	chr6:33039625	rs9501259	chr6:33055551	1.15E-07	
<i>LDHC</i>	rs3993291	chr11:18479739	rs4757662	chr11:18439738	1.19E-07	
<i>AXIN2</i>	rs740026	chr17:63561681	rs757558	chr17:63561592	1.25E-07	
<i>FLJ10916</i>	rs4246598	chr2:88438050	rs2970924	chr2:88433305	2.24E-07	
<i>MED4</i>	rs9534912	chr13:48588564	rs9526455	chr13:48712474	2.62E-07	
<i>RPS6KA2</i>	rs9356531	chr6:167276965	rs9355601	chr6:167269159	3.29E-07	
<i>C16ORF30</i>	rs2076441	chr16:1590576	rs2235643	chr16:1585115	1.76E-06	
<i>PLXDC2</i>	rs2038912	chr10:20207349	rs1326233	chr10:20238864	2.64E-06	
<i>UBE3C</i>	rs1182392	chr7:157036200	rs10271990	chr7:157037521	3.76E-06	
<i>SERPINB6</i>	rs7759176	chr6:2915664	rs7751676	chr6:2931879	6.59E-06	
<i>COPG2</i>	rs12706942	chr7:130149061	rs10128	chr7:130151694	7.90E-06	
<i>EIF5A</i>	rs7220464	chr17:7210836	rs11078672	chr17:7215142	9.29E-06	
<i>ALG11</i>	rs9526819	chr13:52563475	rs3742289	chr13:52603194	2.63E-05	
<i>SLC39A8</i>	rs151402	chr4:103190486	rs151372	chr4:103174196	2.65E-05	
<i>HMMH1</i>	rs17100739	chr5:143112574	rs10498677	chr6:11466011	3.20E-05	<i>TMEM170B</i>
<i>COX4NB</i>	rs301164	chr16:85813880	rs9923691	chr16:85824190	6.63E-05	
<i>CPNE1</i>	rs224354	chr20:34054609	rs1118233	chr20:34228349	7.84E-05	
<i>YPEL4</i>	rs633129	chr11:57685196	rs12790660	chr11:57667222	9.68E-05	
<i>PRPF31</i>	rs254259	chr19:54606405	rs16985368	chr19:54614590	1.17E-04	
<i>C7ORF28B</i>	rs10242703	chr7:6870635	rs2792574	chr14:48676427	2.86E-04	<i>MDGA2</i>
<i>CPA4</i>	rs6953940	chr7:129947007	rs3807344	chr7:129934219	4.33E-04	