

Supplementary table 2. List of positional candidates with differing haplotypes and annotation data

Probe Set ID	CHROMOSOME LOCATION	GENE SYMBOL	GENE DESCRIPTION	AVERAGE FVB/FVB genotype	AVERAGE FVB/B6 genotype	P-value by ch08 genotype	Correlation DXPBS pathway	Pvalue Correlation DXPBS pathway	Correlation PPAR pathway	P-value Correlation PPAR pathway	Correlation COMPLEMENT_COAGULATION pathway	Pvalue Correlation COMPLEMENT_COAGULATION pathway	missense variant #2	FVB vs. pathogenic variant (DiffID)
1057374	5499308b	Atpa	aspartyl (glutamyl) peptidase	7.90	8.32	0.034	-0.14	0.897	0.50	0.344	0.30	0.386	0.881	Y
1057860	54672221	Nel13	nei like 3 (E. coli)	4.68	4.77	0.065	-0.23	0.521	0.19	0.602	0.05	0.460	0.285	
1057861	53863480	Negl1	vascular endothelial growth factor C	6.33	6.25	0.043	-0.16	0.650	0.55	0.102	0.40	0.258	0.640	
1057788	55162490	Vegfc	vascular endothelial growth factor C	6.12	6.25	0.261	-0.16	0.650	0.55	0.102	0.40	0.258	0.640	
1057803	53704366	Sipc3	signal peptide complex subunit 3 homolog (S. cerevisiae)	9.65	9.80	0.244	-0.52	0.128	0.72	0.019	0.64	0.048	0.270	
1057808	55605787	Gm164	glycoprotein mbf	9.85	9.39	0.190	-0.16	0.405	0.59	0.074	0.49	0.230	0.640	
1057815	56046196	Gm164	glycoprotein mbf	9.85	9.39	0.190	-0.16	0.405	0.59	0.074	0.49	0.230	0.640	
1057874	54349709	Adam29	a disintegrin and metalloproteinase domain 29	3.32	3.30	0.687	-0.48	0.162	0.35	0.328	0.21	0.556	0.295	
1057883	55205268	Grb10	growth factor receptor binding protein 10	5.53	5.56	0.260	-0.28	0.580	0.57	0.023	0.29	0.295	0.305	
1057884	54773190	Hspd1	hydroxyprostaglandin dehydrogenase 15 (NAD)	7.59	8.54	0.115	-0.39	0.260	0.66	0.038	0.38	0.276	0.556	
1057886	50010319	BC088983	cDNA sequence BC088983	6.51	6.68	0.134	-0.84	0.002	0.41	0.235	0.06	0.093	0.093	
1057887	55023023	Bndl1	bndl-like	10.17	10.46	0.149	-0.15	0.337	0.18	0.263	0.12	0.738	0.218	
1057885	55993720	Sorci1	scraper responsive gene 1	3.84	3.84	0.841	-0.09	0.815	0.10	0.789	0.49	0.148	0.49	
1057871	60001366	Galt7	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase	7.09	6.98	0.663	0.16	0.651	0.16	0.651	0.09	0.803	0.09	
1057876	60284199	993031104498	RIKEN cDNA 493043104 gene	4.08	4.10	0.684	0.29	0.424	0.22	0.544	0.12	0.751	0.200	
1057181	62948211	Astad1	aminoacidate amidinotransferase	10.03	9.77	0.690	0.50	0.118	0.30	0.405	0.44	0.205	0.635	
1057889	55153750	Grb10	growth factor receptor binding protein 10	5.81	5.81	0.233	0.31	0.031	0.52	0.559	0.05	0.657	0.205	
10578810	53891186	Cln3	chloride channel 3	9.06	8.93	0.545	0.31	0.383	0.19	0.590	0.48	0.160	0.26	
1057892	63479192	Nek1	NIMA in mitosis gene-1-related kinase 1	7.41	7.41	0.186	-0.46	0.179	0.38	0.275	0.26	0.495	0.26	
1057898	55205268	Grb10	growth factor receptor binding protein 10	5.85	5.59	0.169	0.58	0.582	0.57	0.020	0.55	0.52	0.26	
1057889	54993444	Palld	"palldin", cytoskeletal associated protein	7.40	7.35	0.788	0.35	0.318	0.22	0.544	0.24	0.510	0.26	
10578873	64363132	Anxa10	annexin A10	3.89	3.95	0.277	-0.09	0.815	0.42	0.228	0.04	0.200	0.20	
10578880	55205268	Grb10	growth factor receptor binding protein 10	5.85	5.59	0.255	0.55	0.562	0.53	0.024	0.54	0.52	0.26	
10578880	64363132	Tll1	toll-like	5.63	5.48	0.461	0.37	0.293	0.22	0.533	0.61	0.060	0.344	
10578904	67071399	Cpe	cathepsin E	8.55	8.58	0.108	-0.45	0.187	0.22	0.533	0.09	0.093	0.093	
10578923	55153750	Grb10	growth factor receptor binding protein 10	5.13	5.23	0.151	0.51	0.200	0.10	0.560	0.13	0.653	0.063	
1057894	68898218	18102981698	RIKEN cDNA 181029816 gene	5.83	5.90	0.518	-0.23	0.521	0.26	0.466	0.24	0.498	0.24	
10572064	60036555	Trnk	transkinesin-like 2	3.84	3.87	0.811	0.07	0.855	0.04	0.907	0.85	0.285	0.285	
10578953	55153750	Grb10	growth factor receptor binding protein 10	4.73	4.60	0.155	0.50	0.129	0.09	0.568	0.13	0.653	0.213	
10578966	70212883	Pdld3	plakophilin and Sec7 domain containing 3	4.43	5.05	0.163	-0.50	0.143	0.72	0.018	0.45	0.192	0.262	
10578989	70215683	Pdld3	plakophilin and Sec7 domain containing 3	6.77	7.44	0.074	-0.70	0.025	0.50	0.206	0.71	0.022	0.262	
10572070	70215683	Sch3a	Sec7 domain containing 3	7.24	7.23	0.005	0.65	0.583	0.50	0.138	0.11	0.213	0.262	
10572109	71371853	Intr10	integrator complex subunit 10	7.35	7.24	0.402	0.60	0.069	0.10	0.777	0.22	0.533	0.262	
10572116	71404453	Lpl	lipoprotein lipase	9.77	9.86	0.733	0.21	0.215	0.72	0.019	0.25	0.449	0.262	
10572124	71404453	Grb10	growth factor receptor binding protein 10	5.52	5.53	0.393	0.13	0.270	0.72	0.020	0.25	0.449	0.262	
10572146	71404453	Grb10	growth factor receptor binding protein 10	5.52	5.53	0.393	0.13	0.270	0.72	0.020	0.25	0.449	0.262	
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10572146	71404453	Grb10	growth factor receptor binding protein 10	5.52	5.53	0.393								

