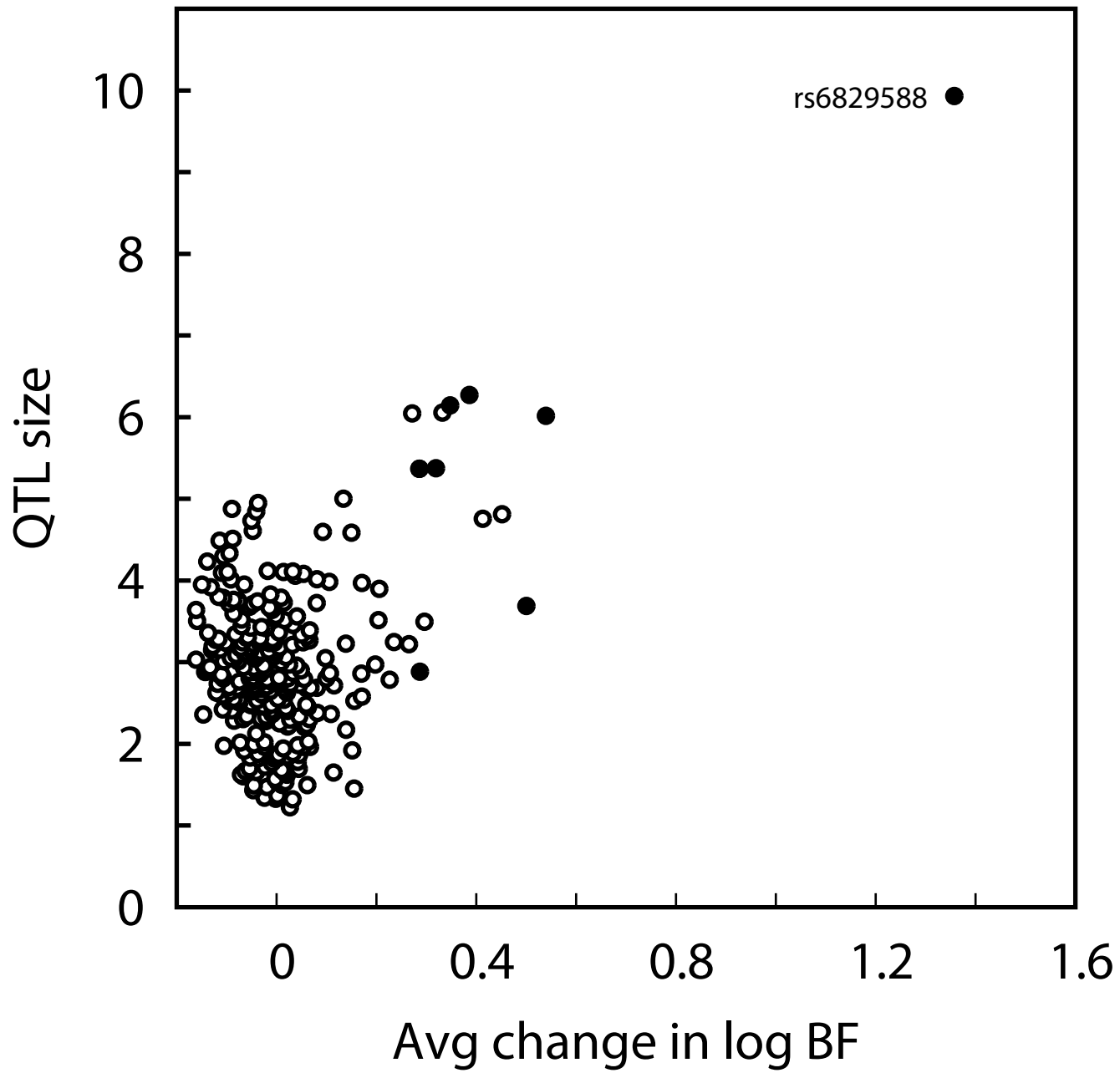Type of file: figure
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Filename: 197795 - Supplementary figure.pdf

Type of file: table

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Filename: 197795 - Supplementary tables 1 and 2.pdf

Supplementary Table 1. Trait mode-of-inheritance models for apoB: selected models evaluated in the case of CSA, and sub-models with highest posterior probabilities from OSA.

Approach	Model	p_1	μ_{11}	μ_{12}	μ_{22}	V_g	V_e	V_g/V_t	Support
CSA	Dominant	0.68	-4.89	-4.89	24.75	80.75	168.74	0.53	1631.08
	General	0.89	-6.0	9.86	52.83	76.56	162.82	0.51	1622.51
	Dominant, mixed*	0.71	-5.68	-5.68	28.73	91.20	75.72	0.30	1619.69
	General mixed	0.71	-4.98	-6.50	28.28	89.27	72.22	0.49	1619.53
OSA**	Model 1	0.83	-2.47	9.97	58.58	123.43	102.85	0.39	0.38
	Model 2	0.64	-0.25	0.33	25.04	70.48	102.85	0.23	0.28
	Model 3	0.45	1.17	16.95	11.38	36.00	102.85	0.12	0.19

V_g: genetic variance explained by major gene model

V_e: residual variance

V_g/V_t : total fraction of phenotypic variance explained by the major gene

Support: -2 log Likelihood for CSA models; posterior probability for OSA models

* model used for parametric linkage analyses

** Model parameters conditional on the existence of the specific QTL model in the oligogenic model space

Supplementary Table 2. Lod scores obtained for analysis with individual markers for family F3, using a parametric lod score approach with model parameters from complex segregation analysis indicated in Supplementary Table 1.

Marker	Position (cM)	Recombination fraction								
		0	0.01	0.02	0.05	0.1	0.15	0.2	0.3	0.4
D4S2366	14.58	-5.16	-4.28	-3.74	-2.76	-1.85	-1.26	-0.85	-0.34	-0.08
D4S403	37.30	-4.46	-2.78	-2.30	-1.56	-0.94	-0.60	-0.38	-0.15	-0.06
D4S2639	29.22	-2.28	-2.03	-1.82	-1.36	-0.88	-0.58	-0.39	-0.16	-0.06
D4S2397	47.48	-4.23	-3.16	-2.72	-1.98	-1.29	-0.87	-0.58	-0.23	-0.06
D4S2632	55.88	-6.78	-4.51	-3.75	-2.57	-1.63	-1.09	-0.74	-0.29	-0.07
D4S1627	66.43	-7.23	-4.32	-3.63	-2.57	-1.67	-1.12	-0.75	-0.29	-0.07
D4S3248	80.30	0.34	0.34	0.33	0.31	0.28	0.24	0.19	0.11	0.04
D4S2367	86.56	-6.60	-4.27	-3.68	-2.73	-1.83	-1.24	-0.84	-0.34	-0.09
D4S3243	97.46	-5.97	-4.00	-3.41	-2.39	-1.49	-0.97	-0.62	-0.22	-0.04
D4S2361	102.85	-3.03	-2.43	-2.08	-1.44	-0.86	-0.53	-0.32	-0.11	-0.03
D4S1647	115.61	-1.87	-1.74	-1.62	-1.33	-0.98	-0.72	-0.52	-0.23	-0.06
D4S2623	125.54	-2.96	-1.64	-1.34	-0.94	-0.61	-0.41	-0.28	-0.10	-0.01
D4S2394	143.90	0.15	0.18	0.21	0.27	0.33	0.33	0.31	0.19	0.07
D4S1644	159.06	2.83	2.79	2.76	2.63	2.37	2.08	1.76	1.10	0.44
D4S1625	161.80	2.99	2.93	2.86	2.68	2.35	2.03	1.69	1.03	0.41
D4S1629	175.24	2.79	2.72	2.65	2.45	2.12	1.78	1.45	0.82	0.29
D4S2368	185.71	2.39	2.33	2.28	2.10	1.81	1.51	1.22	0.68	0.24
D4S2431	195.09	1.37	1.44	1.47	1.48	1.36	1.17	0.96	0.55	0.20
D4S2417	201.15	-0.74	-0.35	-0.09	0.34	0.63	0.70	0.67	0.45	0.17
D4S408	216.00	-1.04	-0.69	-0.45	-0.03	0.28	0.39	0.41	0.30	0.12
D4S1652	230.68	-4.38	-2.75	-2.17	-1.32	-0.69	-0.38	-0.20	-0.04	-0.002