

Table S2. Behavioural QTL for open field behaviour. Chromosome, position (in cM), Lod score, r-squared (in %), additive and dominance values are given, as well as the confidence intervals (C.I.) as defined by a 1.8 LOD drop. Covariates for each trait, as well as any epistatic interactions are also provided (given as chromosome@position: chromosome@position).

trait	chr	position	LOD	R2	add+/-s.e.	dom+/-se	lower CI	upper CI	lower_marker	upper_marker	covariates	interaction
OF_total_velocity_trial2	1	387	13.2		6.2 985+/-209	37.50+/-285	379	409 1_24012566	1_27115232	sex, batch, arena, w42,	1@387:10@82	
OF_total_movement_trial2	1	428	11.3		6.5 -12.96+/-9.35	-15.60+/-11.01	401	453 Gg_rs14799859	1_30756049	sex, batch, arena, w42	10@64:1@428, 1@428:sex	
OF_total_velocity_trial2	1	591	15.7		7.4 -2611+/-427	-2839+/-683	580	595 Gg_rs15239304	Gg_rs14815974	sex, batch, arena, w42,	1@591:13@32	
OF_time_in_centre_zone_trial2	2	426	8.1		6.0 0.00+/-0.03	-0.08+/-0.03	416	431 Gg_rs15094455	GG_rs15099683	sex, batch, arena, w42,	2@426:4@191	
OF_maximum_total_movement	2	513	10.2		6.0 1.14+/-0.22	-0.40+/-0.29	504	521 Gg_rs15107655	Gg_rs15112090	sex, batch, arena, w42,	2@513:10@185	
OF_total_movement_trial2	2	513	4.1		2.3 0.81+/-0.21	-0.04+/-0.27	503	541 Gg_rs15107655	Gg_rs14200463	sex, batch, arena, w42	-	
OF_minimum_total_movement	2	513	9.8		5.2 0.61+/-0.17	-0.62+/-0.21	504	517 Gg_rs15107655	Gg_rs15112090	sex, batch, arena, w42,	2@513:10@182	
OF_total_movement_average	2	513	10.3		6.0 0.94+/-0.19	-0.56+/-0.24	504	520 Gg_rs15107655	Gg_rs15112090	sex, batch, w42	2@513:10@185	
OF_total_movement_trial1	2	515	21		8.8 -3.54+/-0.91	2.85+/-1.24	504	522 Gg_rs15107655	Gg_rs15112090	sex, batch, w42	10@99:2@515, 2@515:w42	
OF_number_visits_centre_trial2	2	519	5.42		3.57 3.62+/-0.73	-1.27+/-1.07	505	568 Gg_rs15107655	Gg_rs14206130	sex, batch, arena, w42,	-	
OF_minimum_total_movement	3	277	7.8		4.1 -0.29+/-0.21	-0.51+/-0.27	274	279 Gg_rs14327472	3_27044082	sex, batch, arena, w42,	3@277:10@63	
OF_time_in_centre_zone_trial2	4	191	5.4		3.9 0.01+/-0.02	0.04+/-0.03	89	201 Gg_rs15481407	Gg_rs15522441	sex, batch, arena, w42,	2@426:4@191	
OF_total_movement_trial2	4	360	7.1		4 -1.12+/-0.51	1.53+/-0.90	343	378 Gg_rs14457643	Gg_rs14470123	sex, batch, arena, w42	10@64:4@360	
OF_number_visits_centre_trial2	6	69	5.65		3.72 7.65+/-2.01	-3.66+/-2.73	41	77 6_2930562	Gg_rs15765462	sex, batch, arena, w42,	6@69:sex	
OF_maximum_total_movement	7	102	5.2		3.0 0.96+/-0.29	-0.78+/-0.36	94	113 Gg_rs15835348	Gg_rs15845344	sex, batch, arena, w42,	10@99:7@102	
OF_total_movement_average	7	103	5.0		2.8 0.62+/-0.25	-0.54+/-0.31	92	110 Gg_rs15835348	Gg_rs15845344	sex, batch, w42	10@99.2:7@103	
OF_total_velocity_average	7	104	6.8		3.1 387.30+/-179.98	-322.00+/-228	95	110 Gg_rs15835348	Gg_rs15845344	sex, batch, w42	7@104:10@101	
OF_number_visits_centre_trial1	7	145	4.9		3.5 -15.26+/-11.13	33.33+/-12.48	137	153 7_15017822	Gg_rs15853763	sex, batch, arena, w42,	-	
OF_minimum_total_movement	8	188	9.5		5.1 0.86+/-0.21	-0.75+/-0.36	140	203 8_21627386	Gg_rs15935538	sex, batch, arena, w42,	17@1:8@188	
OF_total_velocity_average	8	194	13.6		6.5 744+/-167	-1070.00+/-297	183	207 Gg_rs14652282	Gg_rs15935538	sex, batch, w45	17@1:8@194	
OF_minimum_total_movement	10	63	10.1		5.4 0.19+/-0.21	0.46+/-0.27	55	70 Gg_rs14941298	Gg_rs14001676	sex, batch, arena, w42,	3@277:10@63	
OF_total_movement_trial2	10	64	15.1		8.9 13.43+/-8.52	-11.56+/-8.74	46	177 Gg_rs14941298	Gg_rs14949856	sex, batch, arena, w42	10@64:1@428, 10@64:sex	
OF_total_velocity_trial2	10	82	11.2		5.2 -47+/-228	-42.70+/-347	67	111 Gg_rs14941656	Gg_rs14003134	sex, batch, arena, w42,	1@387:10@82	
OF_maximum_total_movement	10	99	7.0		4.1 1.01+/-0.23	-0.95+/-0.36	98	107 Gg_rs14001865	Gg_rs14003134	sex, batch, arena, w42,	10@99:7@102	
OF_total_movement_trial1	10	99	14.2		13.7 1.20+/-0.81	2.35+/-1.18	94	104 Gg_rs14001676	Gg_rs14003134	sex, batch, w42	10@99:2@515, 10@99:w42	
OF_total_movement_average	10	99	7.2		4.1 0.73+/-0.19	-0.76+/-0.30	98	106 Gg_rs14001865	Gg_rs14003134	sex, batch, w42	10@99.2:7@103	
OF_total_velocity_trial1	10	99	4.7		3.0 528.18+/-134.16	-619.00+/-192	95	110 Gg_rs15060526	Gg_rs14139143	sex, batch, w42	-	
OF_total_velocity_average	10	101	9.9		4.6 649+/-150	-1006.00+/-230	96	107 Gg_rs14001676	Gg_rs14003134	sex, batch, w43	7@104:10@101	
OF_minimum_total_movement	10	182	13.7		7.4 0.98+/-0.19	-0.59+/-0.26	176	188 Gg_rs14008254	GG_rs14951592	sex, batch, arena, w42,	2@513:10@182, 10@182:17@1	
OF_total_movement_average	10	185	8.2		4.7 0.72+/-0.19	-0.64+/-0.24	178	192 Gg_rs14008254	GG_rs14951592	sex, batch, w42	2@513:10@185	
OF_maximum_total_movement	10	185	7.2		4.2 0.72+/-0.23	-0.67+/-0.29	178	192 Gg_rs14008254	GG_rs14951592	sex, batch, arena, w42,	2@513:10@185	
OF_total_velocity_trial2	13	32	15.0		7.1 38.92+/-684.03	557.00+/-1083	28	40 GG_rs15676474	Gg_rs14991095	sex, batch, arena, w42,	1@591:13@32	
OF_minimum_total_movement	17	1	14.0		7.6 0.55+/-0.17	-0.49+/-0.22	0	7 Gg_rs15035175	Gg_rs15033588	sex, batch, arena, w42,	10@182:17@1, 17@1:8@188	
OF_total_velocity_average	17	1	15.0		7.2 611+/-129	-473.00+/-174	0	8 Gg_rs15035175	Gg_rs15033588	sex, batch, w44	17@1:8@194	