

Table 3 - Relationship QTL (*relQTL*) significantly affecting the association of the physical activity traits (distance, duration, or speed) with body weight

Chr	<i>relQTL</i> Name	Nearest SNP Marker	Marker distance	Centromere distance	Support interval	LPR	Traits
1	<i>Act1WT.1</i>	rs6293581	+4	38	26—46	2.35	Duration
2	<i>Act2WT.1</i>	rs4223211	0	40	30—50	2.50	Speed
3	<i>Act3WT.1</i>	rs6212539	-2	30	22—40	2.84	Speed
4	<i>Act4WT.1</i>	rs13477568	0	8	8—24	2.28	Distance, Duration
4	<i>Act4WT.2</i>	gnf04.133.236	1	91	76—98	2.36	Distance, Duration
5	<i>Act5WT.1</i>	CEL-5_11863229	+2	5	3—15	2.26	Duration
7	<i>Act7WT.1</i>	rs13479600	+8	10	2—18	2.43	Distance, Duration
7	<i>Act7WT.2</i>	rs13479412	-6	46	2—83	2.43	Duration
8	<i>Act8WT.1</i>	rs3659852	-4	28	2—42	2.63	Speed
8	<i>Act8WT.2</i>	rs13479996	-4	63	0—84	2.63	Speed
10	<i>Act10WT.1</i>	rs13480786	+4	78	64—84	2.16	Duration
11	<i>Act11WT.1</i>	rs6205294	+8	27	19—43	2.36	Speed
13	<i>Act13WT.1</i>	rs6329684	0	1	1—17	1.99	Speed
15	<i>Act15WT.1</i>	rs13482429	+4	8	4—18	2.10	Speed
17	<i>Act17WT.1</i>	rs13483021	+2	38	30—48	2.12	Speed
18	<i>Act18WT.1</i>	rs3670421	+8	12	4—30	2.14	Duration
19	<i>Act19WT.1</i>	rs3671328	+2	7	5—21	3.64	Distance, Duration, Speed
X	<i>ActXWT.1_M</i>	rs13483781	0	33	31—35	2.66	Distance
X	<i>ActXWT.2_M</i>	rs13483890	+4	54	32—82	2.60	Duration

Locations of these *relQTL* on each chromosome (Chr) are shown in terms of the distance in cM proximal (-) or distal (+) to the nearest SNP marker and from the centromere; support intervals around the locations are expressed as cM from the centromere; LPR (log of the probability) values are derived from single trait analyses, or where more than one trait is pleiotropically affected, from multiple trait analyses; *relQTLs* on chromosome X affect males (denoted by M subscripts) only.