

TABLE S3
Replication of local and distal eQTLs between crosses, tissues and sexes

A

eQTL counts	adipose		brain		liver		muscle	
	cross I	cross II	cross I	cross II	cross I	cross II	cross I	cross II
female LOD> 2.7	2304	2590	3292	3461	3308	2913	2608	2485
female LOD> 4.3	1390	1488	2328	2325	2272	1862	1701	1510
female LOD> 6	1081	1064	1900	1884	1839	1450	1321	1169
female LOD> 2.7 vs male LOD> 2.7	1273	1338	2023	2114	1970	1618	1540	1467
female LOD> 4.3 vs male LOD> 2.7	1051	1095	1843	1898	1769	1438	1370	1259
female LOD> 6 vs male LOD> 2.7	901	909	1655	1685	1563	1246	1170	1066
male LOD> 2.7	2701	2763	3151	3190	3183	2850	2714	2708
male LOD> 4.3	1593	1611	2093	2276	2159	1822	1706	1749
male LOD> 6	1192	1213	1692	1894	1717	1423	1349	1387
male LOD> 2.7 vs female LOD> 2.7	1273	1338	2023	2114	1970	1618	1540	1467
male LOD> 4.3 vs female LOD> 2.7	1107	1147	1779	1922	1743	1407	1369	1315
male LOD> 6 vs female LOD> 2.7	952	989	1558	1725	1537	1238	1186	1173

B

eQTL preservation (percent)		adipose		brain		liver		muscle	
		cross I	cross II	cross I	cross II	cross I	cross II	cross I	cross II
LOD > 2.7	female	55.25	51.66	61.45	61.08	59.55	55.54	59.05	59.03
	male	47.13	48.43	64.20	66.27	61.89	56.77	56.74	54.17
LOD > 4.3	female	75.61	73.59	79.17	81.63	77.86	77.23	80.54	83.38
	male	69.49	71.20	85.00	84.45	80.73	77.22	80.25	75.19
LOD > 6	female	83.35	85.43	87.11	89.44	84.99	85.93	88.57	91.19
	male	79.87	81.53	92.08	91.08	89.52	87.00	87.92	84.57

C

eQTL count	adipose		brain		liver		muscle	
	cross I	cross II	cross I	cross II	cross I	cross II	cross I	cross II
female LOD> 2.7	74512	96649	87860	100746	97302	89737	81508	85080
female LOD> 4.3	8276	13461	9539	12581	11295	8900	8282	8912
female LOD> 6	1815	1285	1464	1599	1638	1094	1065	1164
female LOD> 2.7 vs male LOD> 2.7	7594	12004	7468	9320	9214	8699	6543	8554
female LOD> 4.3 vs male LOD> 2.7	1000	2500	1543	1966	1621	1563	1069	1495
female LOD> 6 vs male LOD> 2.7	273	394	743	775	572	546	369	422
male LOD> 2.7	103040	108777	88173	72644	96269	93712	93271	81208
male LOD> 4.3	9945	12847	8131	6546	9743	11825	7878	9494
male LOD> 6	1050	1364	1344	1071	1453	1868	1042	1105
male LOD> 2.7 vs female LOD> 2.7	7594	12004	7468	9320	9214	8699	6543	8554
male LOD> 4.3 vs female LOD> 2.7	1005	1968	1415	1815	1495	1950	865	1479
male LOD> 6 vs female LOD> 2.7	271	430	675	792	548	740	353	366

D

eQTL preservation (percent)		adipose		brain		liver		muscle	
		cross I	cross II	cross I	cross II	cross I	cross II	cross I	cross II
LOD> 2.7	female	10.19	12.42	8.50	9.25	9.47	9.69	8.03	10.05
	male	7.37	11.04	8.47	12.83	9.57	9.28	7.02	10.53
LOD> 4.3	female	12.08	18.57	16.18	15.63	14.35	17.56	12.91	16.78
	male	10.11	15.32	17.40	27.73	15.34	16.49	10.98	15.58
LOD> 6	female	15.04	30.66	50.75	48.47	34.92	49.91	34.65	36.25
	male	25.81	31.52	50.22	73.95	37.72	39.61	33.88	33.12

The percent and count of eQTLs that replicated between crosses, tissues and sex at various LOD thresholds is shown. The eQTLs at LOD> 2.7, 4.3, and 6 of the mouse crosses were screened for detection at LOD>2.7 in their respective comparison crosses. The percent indicates the degree of replication of eQTLs at LOD> 2.7, 4.3 and 6 in cross I that overlap in cross II at LOD> 2.7 over the total number of eQTLs at LOD >4.3 detected in cross I and vice versa. For example, at LOD> 6, over 80% of the local eQTLs in cross I were preserved in cross II of the adipose tissue.