S1 Table. Estimates of cross-tissue and tissue-specific local h^2 . Expression levels derived by Orthogonal Tissue Decomposition and h^2 estimated using the --reml-no-constrain method.

tissue	n	mean h ² (SE)	% P < 0.05	num $P < 0.05$	num expressed
Cross-tissue	450	0.062 (0.0008)	35.4	6003	16951
Adipose - Subcutaneous	298	0.017 (0.0004)	10.3	1747	16951
Adrenal Gland	126	0.037 (0.0007)	10.2	1731	16951
Artery - Aorta	198	$0.022\ (0.0005)$	10.2	1733	16951
Artery - Coronary	119	$0.048 \ (0.0008)$	12.2	2066	16951
Artery - Tibial	285	0.022(0.0004)	13.3	2262	16951
Brain - Anterior cingulate cortex (BA24)	72	0.037(0.0012)	8.6	1451	16951
Brain - Caudate (basal ganglia)	100	0.042 (0.0009)	9.8	1659	16951
Brain - Cerebellar Hemisphere	89	$0.046\ (0.0011)$	10.2	1730	16951
Brain - Cerebellum	103	$0.041\ (0.0009)$	10.8	1825	16951
Brain - Cortex	96	$0.053\ (0.0010)$	10.6	1803	16951
Brain - Frontal Cortex (BA9)	92	0.037 (0.0009)	8.4	1418	16951
Brain - Hippocampus	81	$0.033\ (0.0010)$	7.6	1292	16951
Brain - Hypothalamus	81	0.020 (0.0011)	7.8	1321	16951
Brain - Nucleus accumbens (basal ganglia)	93	0.040 (0.0010)	8.9	1511	16951
Brain - Putamen (basal ganglia)	82	$0.033\ (0.0010)$	7.8	1323	16951
Breast - Mammary Tissue	183	$0.020\ (0.0005)$	7.7	1307	16951
Cells - EBV-transformed lymphocytes	115	$0.045 \ (0.0008)$	10.8	1833	16951
Cells - Transformed fibroblasts	272	0.019(0.0004)	10.6	1805	16951
Colon - Sigmoid	124	$0.024\ (0.0007)$	9.0	1530	16951
Colon - Transverse	170	$0.022\ (0.0005)$	8.6	1462	16951
Esophagus - Gastroesophageal Junction	127	$0.029 \ (0.0007)$	8.9	1512	16951
Esophagus - Mucosa	242	$0.026 \ (0.0005)$	13.7	2319	16951
Esophagus - Muscularis	219	$0.024 \ (0.0005)$	11.0	1871	16951
Heart - Atrial Appendage	159	$0.031\ (0.0006)$	9.4	1601	16951
Heart - Left Ventricle	190	$0.025 \ (0.0005)$	11.2	1894	16951
Liver	98	$0.036 \ (0.0009)$	8.9	1506	16951
Lung	279	$0.018 \; (0.0004)$	10.7	1819	16951
Muscle - Skeletal	361	$0.020 \ (0.0003)$	13.1	2223	16951
Nerve - Tibial	256	$0.026 \ (0.0004)$	13.3	2250	16951
Ovary	85	$0.043 \ (0.0009)$	7.8	1323	16951
Pancreas	150	$0.036 \ (0.0007)$	11.6	1969	16951
Pituitary	87	$0.044 \ (0.0010)$	9.4	1590	16951
Skin - Not Sun Exposed (Suprapubic)	196	$0.041 \ (0.0005)$	19.2	3249	16951
Skin - Sun Exposed (Lower leg)	303	$0.027 \ (0.0004)$	17.3	2939	16951
Small Intestine - Terminal Ileum	77	$0.046 \ (0.0011)$	7.9	1340	16951
Spleen	89	$0.062 \ (0.0010)$	10.7	1820	16951
Stomach	171	$0.020 \ (0.0005)$	8.3	1406	16951
Testis	157	$0.042 \ (0.0007)$	14.0	2378	16951
Thyroid	279	$0.024 \ (0.0004)$	13.3	2250	16951
Whole Blood	339	$0.025 \ (0.0004)$	17.7	3004	16951

All tissues are from the GTEx Project. Mean heritability (h^2) and the standard error of the mean (SE) are calculated across genes for each tissue. The percentage (%) and number (num) of genes with significant h^2 estimates (P < 0.05) and the number of genes expressed in each tissue are also reported.