

**Supplementary Table SII Correlation between eQTLs in endometrium and GTEx tissues.**

Tissue	No.sample	rb	se_rb	Biological System	Development Lineage
Whole_Blood	369	0.605	0.019		Mesoderm
eQTLGen_Blood	31 684	0.592	0.018	Heamatopoietic	Mesoderm
Spleen	146	0.632	0.017		Mesoderm
Thyroid	399	0.658	0.015		Endoderm
Pituitary	157	0.631	0.016	Endocrine	Ectoderm
Prostate	132	0.693	0.016		Endoderm
Adrenal_Gland	175	0.705	0.014		Ectoderm
Lung	383	0.690	0.014	Respiratory System	Endoderm
Artery_Aorta	267	0.689	0.014		Mesoderm
Artery_Coronary	152	0.697	0.015		Mesoderm
Artery_Tibial	388	0.685	0.014	Cardiovascular	Mesoderm
Heart_Atrial_Appendage	264	0.682	0.014		Mesoderm
Heart_Left_Ventricle	272	0.675	0.015		Mesoderm
Skin_Not_Sun_Exposed_Suprapubic	335	0.676	0.015	Integumentary system	Ectoderm
Skin_Sun_Exposed_Lower_leg	414	0.675	0.014		Ectoderm
Muscle_Skeletal	491	0.637	0.017		Mesoderm
Adipose_Subcutaneous	385	0.688	0.014	Musculoskeletal	Mesoderm
Adipose_Visceral_Omentum	313	0.704	0.014		Mesoderm
Nerve_Tibial	361	0.647	0.014	Peripheral nervous system	Ectoderm
Brain_Amygdala	88	0.636	0.016		Ectoderm
Brain_Anterior_cingulate_cortex_BA24	109	0.621	0.016		Ectoderm
Brain_Caudate_basal_ganglia	144	0.629	0.015		Ectoderm
Brain_Cerebellar_Hemisphere	125	0.556	0.018		Ectoderm
Brain_Cerebellum	154	0.536	0.017		Ectoderm
Brain_Cortex	136	0.604	0.015		Ectoderm
Brain_Frontal_Cortex_BA9	118	0.611	0.015	Central nervous system	Ectoderm
Brain_Hippocampus	111	0.634	0.016		Ectoderm
Brain_Hypothalamus	108	0.633	0.016		Ectoderm
Brain_Nucleus_accumbens_basal_ganglia	130	0.623	0.015		Ectoderm
Brain_Putamen_basal_ganglia	111	0.626	0.016		Ectoderm
Brain_Spinal_cord_cervical_c-1	83	0.657	0.016		Ectoderm
Brain_Substantia_nigra	80	0.644	0.017		Ectoderm

(Continued)

**Supplementary Table SII Continued.**

<b>Tissue</b>	<b>No.sample</b>	<b>rb</b>	<b>se_rb</b>	<b>Biological System</b>	<b>Development Lineage</b>
Esophagus_Gastroesophageal_Junction	213	0.693	0.014		Endoderm
Esophagus_Mucosa	358	0.693	0.014		Endoderm
Esophagus_Muscularis	335	0.682	0.014		Endoderm
Stomach	237	0.723	0.014		Endoderm
Small_Intestine_Terminal_Ileum	122	0.699	0.016	Digestive system	Endoderm
Colon_Sigmoid	203	0.685	0.014		Endoderm
Colon_Transverse	246	0.714	0.014		Endoderm
Minor_Salivary_Gland	85	0.724	0.015		Endoderm
Pancreas	220	0.673	0.015		Endoderm
Liver	153	0.638	0.019	Hepatic	Endoderm
Testis	225	0.539	0.020	Male reproductive system	Mesoderm
Uterus	101	0.706	0.016		Mesoderm
Vagina	106	0.708	0.016		Mesoderm
Ovary	122	0.682	0.016	Female reproductive system	Mesoderm
Breast_Mammary_Tissue	251	0.705	0.014		Mesoderm
Cells_Transformed_fibroblasts	300	0.716	0.013	Individual cells	-
Cells_EBV-transformed_lymphocytes	117	0.658	0.018	Individual cells	Mesoderm

Correlation (rb) of endometrial eQTLs with 48 GTEx Tissues and eQTLGen blood eQTLs. Each tissue is grouped into a biological system and development lineage.