

**Supplementary Table 5. Analyses of expression quantitative trait locus (eQTL) in significant variants associated with risk of cancer and non-neoplastic diseases**

<b>Variant</b>	<b>Gene</b>	<b>Tissue</b>	<b>P value</b>	<b>Effect Size</b>
rs2736100	TERT	Skin-Not Sun Exposed (Suprapubic)	$4.8 \times 10^{-5}$	0.23
rs2853676	TERT	Skin-Sun Exposed (Lower Leg)	$2.0 \times 10^{-6}$	0.28
rs2853677	TERT	Skin-Not Sun Exposed (Suprapubic)	$3.9 \times 10^{-6}$	0.29
	TERT	Skin-Sun Exposed (Lower Leg)	$1.6 \times 10^{-5}$	0.24
	TERT	Skin-Not Sun Exposed (Suprapubic)	$2.6 \times 10^{-5}$	0.21
rs31489	CLPTM1L	Esophagus - Mucosa	$7.10 \times 10^{-12}$	-0.29
	CLPTM1L	Skin - Not Sun Exposed (Suprapubic)	$2.30 \times 10^{-8}$	-0.11
	CLPTM1L	Stomach	$8.80 \times 10^{-7}$	0.11
	CLPTM1L	Skin - Sun Exposed (Lower leg)	$2.2 \times 10^{-6}$	-0.097
	CLPTM1L	Artery - Tibial	$2.8 \times 10^{-5}$	0.075
rs401681	CLPTM1L	Esophagus - Mucosa	$6.10 \times 10^{-14}$	-0.31
	CLPTM1L	Skin - Not Sun Exposed (Suprapubic)	$3.60 \times 10^{-12}$	-0.14
	CLPTM1L	Skin - Sun Exposed (Lower leg)	$3.30 \times 10^{-9}$	-0.12
	CLPTM1L	Stomach	$3.1 \times 10^{-6}$	0.097
rs402710	CLPTM1L	Esophagus - Mucosa	$4.00 \times 10^{-11}$	-0.29
	CLPTM1L	Skin - Not Sun Exposed (Suprapubic)	$4.10 \times 10^{-8}$	-0.12
	CLPTM1L	Skin - Sun Exposed (Lower leg)	$2.80 \times 10^{-6}$	-0.1
rs465498	CLPTM1L	Esophagus - Mucosa	$1.50 \times 10^{-14}$	-0.31
	CLPTM1L	Skin - Not Sun Exposed (Suprapubic)	$5.90 \times 10^{-12}$	-0.13
	CLPTM1L	Skin - Sun Exposed (Lower leg)	$1.40 \times 10^{-8}$	-0.11
	CLPTM1L	Stomach	$6.2 \times 10^{-6}$	0.093
rs4975616	CLPTM1L	Esophagus - Mucosa	$4.30 \times 10^{-13}$	0.3
	CLPTM1L	Skin - Not Sun Exposed (Suprapubic)	$6.30 \times 10^{-10}$	0.12
	CLPTM1L	Skin - Sun Exposed (Lower leg)	$7.40 \times 10^{-7}$	0.1
	CLPTM1L	Stomach	$5.3 \times 10^{-6}$	-0.096

Data source: Genotype-Tissue Expression (GTEx) Project.