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

| Variant   | Gene    | Tissue                          | P value  | Effect Size |
|-----------|---------|---------------------------------|----------|-------------|
| rs2736100 | TERT    | Skin-Not Sun Exposed (Suprapubic)| 4.8×10^-5| 0.23        |
| rs2853676 | TERT    | Skin-Sun Exposed (Lower Leg)    | 2.0×10^-6| 0.28        |
|           | TERT    | Skin-Not Sun Exposed (Suprapubic)| 3.9×10^-6| 0.29        |
| rs2853677 | TERT    | Skin-Sun Exposed (Lower Leg)    | 1.6×10^-5| 0.24        |
|           | TERT    | Skin-Not Sun Exposed (Suprapubic)| 2.6×10^-5| 0.21        |
| rs31489   | CLPTM1L | Esophagus - Mucosa              | 7.10×10^-12| -0.29   |
|           | CLPTM1L | Skin - Not Sun Exposed (Suprapubic)| 2.30×10^-08| -0.11   |
|           | CLPTM1L | Stomach                        | 8.80×10^-07| 0.11     |
|           | CLPTM1L | Skin - Sun Exposed (Lower leg)  | 2.2×10^-06| -0.097     |
|           | CLPTM1L | Artery - Tibial                | 2.8×10^-05| 0.075     |
| rs401681  | CLPTM1L | Esophagus - Mucosa              | 6.10×10^-14| -0.31     |
|           | CLPTM1L | Skin - Not Sun Exposed (Suprapubic)| 3.60×10^-12| -0.14   |
|           | CLPTM1L | Skin - Sun Exposed (Lower leg)  | 3.30×10^-09| -0.12     |
|           | CLPTM1L | Stomach                        | 3.1×10^-06| 0.097     |
| rs402710  | CLPTM1L | Esophagus - Mucosa              | 4.00×10^-11| -0.29     |
|           | CLPTM1L | Skin - Not Sun Exposed (Suprapubic)| 4.10×10^-08| -0.12   |
|           | CLPTM1L | Skin - Sun Exposed (Lower leg)  | 2.80×10^-06| -0.1      |
| rs465498  | CLPTM1L | Esophagus - Mucosa              | 1.50×10^-14| -0.31     |
|           | CLPTM1L | Skin - Not Sun Exposed (Suprapubic)| 5.90×10^-12| -0.13     |
|           | CLPTM1L | Skin - Sun Exposed (Lower leg)  | 1.40×10^-08| -0.11     |
|           | CLPTM1L | Stomach                        | 6.2×10^-06| 0.093     |
| rs4975616 | CLPTM1L | Esophagus - Mucosa              | 4.30×10^-13| 0.3       |
|           | CLPTM1L | Skin - Not Sun Exposed (Suprapubic)| 6.30×10^-10| 0.12     |
|           | CLPTM1L | Skin - Sun Exposed (Lower leg)  | 7.40×10^-07| 0.1       |
|           | CLPTM1L | Stomach                        | 5.3×10^-06| -0.096    |

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