

## Supplementary Material

Supplementary Table 1. SNPs associated with telomere length in three studies (p&lt;0.05 for each study)

Genotype	Chr	Gene	Lung Controls			Bladder Controls			Kidney Controls			Pooled Analysis		
			N	$\beta$	P value	N	$\beta$	P value	N	$\beta$	P value	N	$\beta$	P value
rs6028466	20	<i>DHX35</i>	459	0.261	0.003109	890	0.078	0.024833	270	0.361	0.001396	1619	0.192	3.02E-07
rs621559	1	<i>WDR65</i>	459	0.201	0.008673	890	0.102	0.000364	270	0.307	0.015791	1619	0.16	1.65E-06
rs398652	14	<i>PELI2</i>	458	0.206	0.000352	890	0.049	0.028771	270	0.204	0.0215	1618	0.12	2.05E-06
rs654128	6	<i>KPNA5</i>	459	0.147	0.012535	890	0.055	0.017219	270	0.305	0.001103	1619	0.122	3.01E-06
rs2745650	6	<i>FUT9</i>	459	0.159	0.007455	890	0.052	0.022739	270	0.22	0.016633	1619	0.109	2.50E-05
rs1413748	6	<i>RFXDC1</i>	459	0.112	0.019419	890	0.049	0.012262	270	0.171	0.025188	1619	0.088	4.60E-05
rs4840140	6	<i>FUT9</i>	459	0.149	0.010853	890	0.05	0.02444	270	0.203	0.021798	1619	0.102	5.10E-05
rs6938545	6	<i>LOC154449</i>	459	0.113	0.043403	890	0.044	0.029957	270	0.272	0.002185	1619	0.096	5.10E-05
rs1483796	7	<i>UNQ739</i>	459	0.086	0.046555	890	0.035	0.033548	270	0.191	0.003921	1619	0.075	5.90E-05
rs3779258	7	<i>WASL</i>	459	0.161	0.032801	890	0.071	0.008737	270	0.245	0.030056	1619	0.123	9.40E-05
rs6123105	20	<i>SALL4</i>	459	0.105	0.034285	890	0.039	0.03595	270	0.178	0.015139	1619	0.082	0.00012
rs8088980	18	<i>ZNF407</i>	458	-0.087	0.039872	890	-0.04	0.01611	270	-0.16	0.022195	1618	-0.07	0.00016
rs1109426	2	<i>FLJ14816</i>	458	0.1	0.017148	890	0.034	0.040243	270	0.139	0.041918	1618	0.069	0.00021

Supplementary Figure 1. Quantile-quantile plot for the test statistics ( $\chi^2$  test for allele) ( $\lambda=1.004$ )

