

Supplementary Table S1. Associations between variants at the TRF1-CTCFM11 region associated with risk of human disease (in parentheses under additive model)

Gene	Variant	Alleles*	Disease	Disease type	Ethnicity	MAF	Studies	Cases	Controls	Risk of Meta-Analysis	Heterogeneity	Variance	Crucial	Amount of Evidence	Protection from Bias	Initial study influence	Low OR	FFPZ	Credibility*											
ID										OR (95%CI)	P _{het}	P _{var}	Grade	Grade	Reason for Bias	Reason for bias exemption	OR (95%CI)	P _{var}	P _{top}	P _{meta}	P _{meta}	Low OR	FFPZ value†	Credibility*						
1	TERT	rs2739908	CT	Bladder cancer	Caucasian	0.1214	3	1063	1331	1.031 (1.008-1.013)	<0.001	47.0	0.106	AAA	Moderate	2955	A	B	A	No	NA	1.210 (1.084-1.349)	0.001	No	0.560	0.806	1.000	No	0.006	Strong
2	TERT	rs2739910	C/A	Bladder cancer	Caucasian	0.2014	2	948	1649	1.112 (0.977-1.111)	<0.001	40.9	0.836	AAA	Moderate	4401	A	A	C	Low OR	No	0.889 (0.769-0.995)	0.004	NA	0.793	0.308	1.000	Yes	0.152	Weak
3	CLPF1M1	rs401861	CT	Bladder cancer	Caucasian	0.3633	4	1535	2300	0.832 (0.77-0.94)	0.002	0.0	0.177	AAA	Strong	2766	A	A	A	No	NA	0.851 (0.784-0.961)	0.001	No	0.398	1.000	1.000	No	0.029	Strong
4	CLPF1M1	rs401730	CT	Bladder cancer	Caucasian	0.3256	1	498	508	0.855 (0.75-0.91)	<0.001	0.0	0.635	AAA	Strong	1796	A	A	A	No	NA	0.849 (0.789-0.962)	0.012	NA	0.233	1.000	1.000	No	0.156	Strong
5	TERT	MNS16A	L/S	Breast cancer	Caucasian	0.2560	4	2452	2514	1.065 (0.985-1.141)	0.005	73.6	0.010	AAA	Moderate	4888	A	B	A	No	NA	1.227 (1.096-1.273)	<0.001	NA	0.827	1.000	0.399	No	0.001	Strong
6	TERT	rs13187280	G/A	Breast cancer	Caucasian	0.7312	3	5057	5702	0.963 (0.988-1.043)	0.149	0.0	0.681	AAA	Moderate	3240	A	B	A	No	NA	1.174 (1.091-1.260)	<0.001	NA	0.103	0.296	1.000	No	0.002	Strong
7	TERT	rs2873780	AG	Breast cancer	Caucasian	0.6460	3	5057	5702	0.959 (0.982-1.034)	0.002	0.0	0.716	AAA	Moderate	2311	A	B	A	No	NA	1.181 (1.061-1.319)	<0.001	NA	0.194	0.308	1.000	No	0.001	Strong
8	TERT	rs2739940	AG	Breast cancer	Caucasian	0.5282	6	5114	6640	0.978 (0.913-1.048)	0.134	31.4	0.212	AAA	Moderate	922	B	A	A	No	NA	1.198 (1.059-1.358)	<0.001	NA	0.469	0.296	1.000	No	0.001	Strong
9	TERT	rs2739908	CT	Breast cancer	Asian	0.1429	1	48	591	2.681 (1.515-4.659)	<0.001	NA	NA	AAA	Weak	5704	A	C	C	First study, small study	No	0.776 (0.662-1.008)	0.05	NA	0.027	0.144	1.000	No	0.286	Weak
10	TERT	rs2739910	C/A	Breast cancer	Caucasian	0.4677	4	1262	1118	1.062 (0.986-1.132)	0.309	0.0	0.976	AAA	Moderate	2311	A	B	A	No	NA	1.181 (1.061-1.319)	<0.001	NA	0.194	0.308	1.000	No	0.001	Strong
11	TERT	rs2739910	G/A	Breast cancer	Caucasian	0.2683	8	9487	12524	0.970 (0.923-1.016)	0.691	1.0	0.017	AAA	Moderate	643	A	C	C	Low OR	No	0.776 (0.662-1.008)	0.05	NA	0.027	0.144	1.000	No	0.286	Weak
12	TERT	rs2836869	T/C	Breast cancer	Caucasian	0.4844	10	8638	10338	1.006 (0.982-1.074)	0.370	41.6	0.000	AAA	Moderate	4888	A	B	A	No	NA	1.174 (1.091-1.260)	<0.001	NA	0.103	0.296	1.000	No	0.002	Strong
13	TERT	rs2836870	G/A	Breast cancer	Caucasian	0.4424	3	5057	5702	1.030 (0.980-1.095)	0.111	0.0	0.780	AAA	Moderate	2311	A	B	A	No	NA	1.181 (1.061-1.319)	<0.001	NA	0.194	0.308	1.000	No	0.001	Strong
14	TERT	rs2836869	G/T	Breast cancer	Caucasian	0.1496	3	5057	5702	0.977 (0.955-1.054)	0.141	0.0	0.847	AAA	Moderate	2311	A	B	A	No	NA	1.181 (1.061-1.319)	<0.001	NA	0.194	0.308	1.000	No	0.001	Strong
15	TERT	rs772582	A/C	Breast cancer	Caucasian	0.2791	3	5057	5702	1.035 (0.927-1.156)	0.540	58.0	0.133	AAA	Moderate	40220	A	A	C	Low OR	No	1.072 (1.039-1.106)	<0.001	No	0.298	1.000	0.725	Yes	<0.001	Moderate
16	TERT	rs2739910	C/A	Colorectal cancer	Caucasian	0.4880	10	19650	21500	1.079 (1.048-1.102)	<0.001	0.0	0.170	AAA	Strong	1774	A	A	A	No	NA	1.226 (1.091-1.380)	<0.001	NA	0.397	0.296	1.000	No	<0.001	Strong
17	TERT	rs2739910	C/A	Esophageal cancer	Asian	0.0055	3	2098	2150	0.748 (0.64-0.79)	<0.001	0.0	0.186	AAA	Strong	4888	A	A	A	No	NA	0.722 (0.643-0.818)	<0.001	NA	0.339	0.296	1.000	No	<0.001	Strong
18	TERT	rs2836869	AG	Esophageal cancer	Asian	0.2480	3	2098	2150	1.291 (1.195-1.379)	<0.001	0.0	0.186	AAA	Moderate	2311	A	B	A	No	NA	1.227 (1.096-1.273)	<0.001	NA	0.827	1.000	0.399	No	0.001	Strong
19	CLPF1M1	rs401861	CT	Esophageal cancer	Caucasian	0.3366	3	1742	1856	0.805 (0.743-0.876)	0.003	0.2	0.300	AAA	Strong	2266	A	A	A	No	NA	0.807 (0.736-0.874)	0.002	NA	0.499	1.000	1.000	No	0.008	Strong
20	CLPF1M1	rs401861	C/A	Esophageal cancer	Caucasian	0.2128	3	1742	1856	0.876 (0.78-0.98)	0.001	0.0	0.978	AAA	Moderate	922	B	A	A	No	NA	0.796 (0.736-0.853)	<0.001	NA	0.469	0.296	1.000	No	0.156	Moderate
21	TERT	rs1006800	AG	Osteic cancer	Asian	0.1816	4	2470	2236	1.317 (1.193-1.454)	<0.001	28.5	0.241	AAA	Moderate	2366	A	B	A	No	NA	1.317 (1.193-1.454)	<0.001	No	0.304	0.308	0.311	No	0.000	Strong
22	TERT	rs2739940	AG	Osteic cancer	Caucasian	0.3234	3	641	1528	1.302 (0.892-2.040)	0.416	94.1	<0.001	AAA	Weak	5704	A	C	C	First study, small study	No	0.776 (0.662-1.008)	0.05	NA	0.027	0.144	1.000	No	0.286	Weak
23	TERT	rs2739910	C/A	Osteic cancer	Caucasian	0.3684	1	184	209	0.600 (0.40-0.908)	0.047	NA	NA	AAA	Weak	4771	A	C	C	First study, small study	No	0.673 (0.519-0.939)	<0.001	Yes	0.244	0.734	0.611	No	0.514	Weak
24	TERT	rs2836876	T/C	Osteic cancer	Asian	0.3150	2	137	1319	1.748 (0.88-3.439)	0.103	93.8	<0.001	AAA	Weak	7851	A	C	C	First study, small study	No	0.803 (0.724-0.900)	<0.001	No	0.064	0.734	0.448	No	0.428	Weak
25	TERT	rs2739910	C/A	Glioma	Caucasian	0.8466	8	3750	8379	0.748 (0.66-0.825)	<0.001	77.0	0.001	AAA	Strong	12754	A	A*	A	No	Identified by GWAS	0.748 (0.66-0.85)	<0.001	No	0.234	0.386	1.000	No	<0.001	Strong
26	TERT	rs2836876	T/C	Glioma	Asian	0.4572	2	1682	1267	0.893 (0.78-0.99)	0.036	91.4	0.001	AAA	Strong	2069	A	A	A	Publication bias	Identified by GWAS	0.787 (0.709-0.873)	<0.001	No	0.237	0.072	1.000	No	<0.001	Strong
27	TERT	rs2739908	CT	Hepatocellular carcinoma	Asian	0.3453	3	846	867	1.211 (0.948-1.548)	0.125	65.1	0.057	AAA	Moderate	2751	A	A	A	No	Identified by GWAS	1.372 (1.196-1.562)	<0.001	NA	0.397	0.296	1.000	No	<0.001	Strong
28	TERT	rs2739910	C/A	Hepatocellular carcinoma	Asian	0.5938	3	397	1848	1.760 (1.268-2.23)	<0.001	0.0	0.939	AAA	Strong	2751	A	A	A	No	Identified by GWAS	1.760 (1.268-2.23)	<0.001	NA	0.397	0.296	1.000	No	<0.001	Strong
29	TERT	rs2426262	G/A	Lung cancer	Miscellany	0.1630	3	3631	4013	1.548 (1.46-1.724)	0.003	0.0	0.562	AAA	Strong	1774	A	A	A	No	NA	1.296 (1.091-1.486)	0.012	NA	0.579	0.296	0.518	No	0.013	Strong
30	TERT	rs2739908	CT	Lung cancer	Miscellany	0.2299	1	474	1061	1.174 (0.99-1.536)	0.069	NA	NA	AAA	Moderate	7934	A	B	A	No	NA	1.252 (1.142-1.366)	<0.001	No	0.237	0.152	1.000	No	<0.001	Strong
31	TERT	rs2739908	CT	Lung cancer	NSCLC (Adenocarcinoma)	0.3362	3	1131	2203	1.481 (1.28-1.675)	<0.001	0.0	0.749	AAA	Moderate	922	B	A	A	No	NA	1.481 (1.28-1.675)	<0.001	NA	0.469	0.296	1.000	No	0.008	Strong
32	TERT	rs2739908	CT	Lung cancer	NSCLC (Adenocarcinoma)	0.3362	3	556	2203	1.098 (0.954-1.263)	0.193	0.0	0.495	AAA	Strong	6625	A	A*	A	Small study	Identified by GWAS	0.854 (0.762-0.952)	<0.001	No	0.067	0.802	0.122	No	0.005	Strong
33	TERT	rs2739910	C/A	Lung cancer	NSCLC (Squamous cell carcinoma)	0.5024	27	33918	35844	0.846 (0.786-0.913)	<0.001	96.9	<0.001	AAA	Strong	12754	A	A	A	No	Identified by GWAS	0.846 (0.786-0.913)	<0.001	No	0.067	0.802	0.122	No	0.005	Strong
34	TERT	rs2739910	C/A	Lung cancer	NSCLC (Adenocarcinoma)	0.4927	5	13061	16151	0.874 (0.84-0.903)	<0.001	0.0	0.756	AAA	Strong	7934	A	A	A	No	NA	1.252 (1.142-1.366)	<0.001	NA	0.237	0.152	1.000	No	<0.001	Strong
35	TERT	rs2739910	C/A	Lung cancer	NSCLC (Adenocarcinoma)	0.4927	21	18017	15289	0.874 (0.78-0.97)	<0.001	29.0	0.006	AAA	Moderate	922	B	A	A	No	NA	1.252 (1.142-1.366)	<0.001	NA	0.237	0.152	1.000	No	<0.001	Strong
36	TERT	rs2739910	C/A	Lung cancer	NSCLC (Adenocarcinoma)	0.4927	1	40	40	1.061 (0.51-2.237)	0.044	NA	NA	AAA	Weak	2069	A	A	A	Small study	Identified by GWAS	0.797 (0.693-0.917)	0.002	No	0.074	0.296	1.000	No	0.002	Strong
37	TERT	rs2836876	G/A	Lung cancer	NSCLC (Adenocarcinoma)	0.4927	10	2730	2020	0.788 (0.72-0.87)	<0.001	62.4	0.006	AAA	Strong	2069	A	A	A	No	NA	0.788 (0.72-0.87)	<0.001	NA	0.469	0.296	1.000	No	0.001	Strong
38	CLPF1M1	rs131489	G/A	Lung cancer	Miscellany	0.3258	3	4443	16328	1.062 (0.868-1.306)	0.196	94.1	0.001	AAA	Strong	10200	A	A*	A	No	Identified by GWAS	0.851 (0.769-0.911)	<0.001	NA	0.304	0.368	1.000	No	<0.001	Strong
39	CLPF1M1	rs131489	C/A	Lung cancer	NSCLC (Squamous cell carcinoma)	0.2698	3	1725	2143	0.842 (0.68-1.039)	0.139	70.7	0.033	AAA	Moderate	2366	A	B	A	No	NA	0.842 (0.68-1.039)	0.033	NA	0.499	1.000	1.000	No	0.008	Strong
40	CLPF1M1	rs401861	CT	Lung cancer	NSCLC (Squamous cell carcinoma)	0.3362	14	11290	12390	0.888 (0.84-0.94)	<0.001	35.5	0.073	AAA	Strong	16224	A	A	A	Low OR	Identified by GWAS	0.887 (0.83-0.946)	<0.001	No	0.735	0.902	0.287	Yes	<0.001	Strong
41	CLPF1M1	rs401861	CT	Lung cancer	NSCLC (Squamous cell carcinoma)	0.3362	10	10109	13800	0.888 (0.78-0.99)	<0.001	48.0	0.044	AAA	Strong	16224	A	A	A	Low OR	Identified by GWAS	0.887 (0.83-0.946)	<0.001	No	0.735	0.902	0.287	Yes	<0.001	Strong
42	CLPF1M1	rs401861	CT	Lung cancer	NSCLC (Squamous cell carcinoma)	0.4425	2	4730	2375	0.875 (0.77-0.97)	<0.001	46.0	0.049	AAA	Strong	2069	A	A	A	No	NA	0.875 (0.77-0.97)	<0.001	NA	0.469	0.296	1.000	No	0.001	Strong
43	CLPF1M1	rs401861	CT	Lung cancer	NSCLC (Squamous cell carcinoma)	0.4425	2	1559	2478	0.939 (0.858-1.027)	0.167	97.1	0.127	AAA	Strong	2069	A	A	A	No	NA	0.939 (0.858								