

Supplementary Table 2. Collapsed burden testing for 64 TGCT GWAS loci genes

Gene	T1 variant counts			T2 variant counts			T3 variant counts		
	Cases	Controls	P value	Cases	Controls	P value	Cases	Controls	P value
AIFM3	0	1	1.00	3	29	0.00	6	41	0.00
ATF7IP	0	0	1.00	1	4	1.00	25	42	0.36
ATG14	0	0	1.00	1	1	0.54	2	8	0.52
BAK1	0	0	1.00	1	5	0.67	2	5	1.00
BCAR4	0	0	1.00	0	0	1.00	0	0	1.00
C1orf200	0	0	1.00	0	0	1.00	3	3	0.39
CATSPER3	0	0	1.00	2	5	1.00	8	31	0.12
CDKL2	0	1	1.00	1	3	1.00	2	10	0.36
CENPE	1	0	0.32	7	12	0.63	37	56	0.11
CLCN6	0	0	1.00	5	13	0.80	7	23	0.33
CLPTM1L	0	0	1.00	5	6	0.35	5	10	1.00
CLUL1	0	0	1.00	1	2	1.00	3	5	0.72
DAZL	0	0	1.00	1	1	0.54	5	1	0.02
DLGAP5	0	0	1.00	8	7	0.10	23	42	0.59
DMRT1	0	0	1.00	5	10	1.00	6	15	0.82
ENOSF1	1	1	0.54	4	6	0.74	8	14	0.65
FBXO34	0	0	1.00	3	2	0.34	8	10	0.31
G3BP2	0	0	1.00	2	0	0.10	6	0	0.00
GAB2	0	0	1.00	4	7	0.75	5	12	1.00
GATA4	0	0	1.00	2	0	0.10	3	7	1.00
GPR160	1	0	0.32	2	1	0.24	4	2	0.09
HEATR3	0	1	1.00	1	2	1.00	3	4	0.69
HNF1B	0	0	1.00	4	3	0.22	7	3	0.02
HPGDS	0	0	1.00	4	5	0.48	6	6	0.22
KATNA1	0	1	1.00	3	8	1.00	6	18	0.52
KIAA1551	0	1	1.00	3	19	0.07	27	59	1.00
KITLG	0	0	1.00	0	3	0.56	0	3	0.56
LATS1	0	0	1.00	4	7	0.75	16	18	0.07
LGALS3	0	0	1.00	1	4	1.00	3	19	0.07
LHPP	0	0	1.00	3	1	0.10	7	11	0.61
LINC00336	0	0	1.00	0	0	1.00	0	0	1.00
MAD1L1	0	0	1.00	0	0	1.00	0	0	1.00
MAP2K1	0	1	1.00	0	1	1.00	0	2	1.00
MCM3AP	0	2	1.00	5	14	0.81	15	46	0.21
MCM3AP-,	0	1	1.00	0	1	1.00	0	1	1.00
MPV17L	0	0	1.00	0	0	1.00	0	1	1.00
NCAPG2	0	0	1.00	0	0	1.00	0	0	1.00
NLRP12	0	5	0.18	10	25	0.72	16	35	1.00
PDE8A	1	0	0.32	2	4	1.00	3	8	1.00
PIK3CD	0	0	1.00	2	0	0.10	7	3	0.02
PITX1	0	0	1.00	0	0	1.00	0	2	1.00
PKNOX2	0	0	1.00	0	1	1.00	0	4	0.31
PLBD1	0	2	1.00	7	17	0.83	9	19	1.00
PRDM14	0	0	1.00	1	1	0.54	14	13	0.04
PRTG	0	1	1.00	7	15	1.00	38	57	0.12
RFWD3	0	1	1.00	1	3	1.00	6	8	0.40
RSL1D1	0	0	1.00	5	9	0.78	12	17	0.32

SLC25A44	0	0	1.00	4	9	1.00	4	9	1.00
SLC28A1	0	0	1.00	5	13	0.80	16	30	0.75
SMARCA4	0	0	1.00	0	0	1.00	7	17	0.83
SPRY4	0	0	1.00	12	32	0.52	12	32	0.52
TBPL2	2	1	0.24	2	1	0.24	5	8	0.77
TERT	0	0	1.00	0	1	1.00	15	12	0.01
TEX14	3	5	0.72	24	55	0.81	33	68	0.91
TFCP2L1	0	0	1.00	3	0	0.03	12	12	0.08
TFDP2	0	0	1.00	0	1	1.00	1	2	1.00
TIPIN	1	0	0.32	4	1	0.04	4	3	0.22
TKTL1	0	0	1.00	0	0	1.00	0	0	1.00
TYMS	0	0	1.00	0	0	1.00	2	2	0.60
UCK2	0	0	1.00	0	0	1.00	1	0	0.32
ZFP42	0	0	1.00	2	3	0.66	5	7	0.54
ZFPM1	0	0	1.00	0	0	1.00	1	0	0.32
ZNF257	1	2	1.00	2	16	0.07	10	26	0.72
ZNF638	1	0	0.32	9	16	0.67	25	58	0.72

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