







**Table S3. The association of SNPs in the *C15orf53* gene with symptom count in COGA and SAGE samples. SNP in red is a non-synonymous cSNP; SNP in blue located in 3'UTR of the gene. Bold p values in SAGE sample indicate the nominal association with  $p < 0.05$ . \*correlation between SNPs is based on 1000 genomes pilot 1 data.**

SNP	Position (hg19)	Effect_ COGA	P value_ COGA	Corrected P value_ COGA	Source_ COGA	Effect_ SAGE	P value_ SAGE	rs12912251 *	D' with rs12912251*
rs12912251	38986368	-0.18	4.56E-08	9.42E-07	imputed	-0.05	0.081	1	1
rs12898460	38986813	-0.18	4.71E-08	9.67E-07	imputed	-0.05	0.078	0.95	1
rs12903120	38988097	-0.18	5.45E-08	1.09E-06	genotyped	-0.05	0.075	1	1
rs35102843	38988107	-0.18	4.55E-08	9.40E-07	imputed	-0.05	0.074	1	1
rs7163869	38988391	-0.18	9.32E-08	1.68E-06	imputed	-0.05	0.069	1	1
rs7171233	38988760	-0.18	8.45E-08	1.55E-06	imputed	-0.05	0.064	0.95	1
<b>rs7165988</b>	38988815	-0.18	9.70E-08	1.74E-06	imputed	-0.05	0.064	0.95	1
rs34356257	38989605	-0.18	1.01E-07	1.79E-06	imputed	-0.05	0.076	1	1
rs34141940	38989657	-0.18	1.07E-07	1.88E-06	imputed	-0.05	0.076	0.95	1
rs34281605	38989674	-0.18	1.25E-07	2.13E-06	imputed	-0.05	0.076	0.95	1
rs35024396	38989770	-0.18	1.23E-07	2.10E-06	imputed	-0.07	<b>0.019</b>	1	1
rs2172835	38990171	-0.17	2.01E-07	3.13E-06	imputed	-0.07	<b>0.019</b>	1	1
<b>rs12916379</b>	38991520	-0.17	1.74E-07	2.79E-06	genotyped	-0.06	<b>0.030</b>	1	1
rs2132157	38992547	-0.17	1.92E-07	3.02E-06	genotyped	-0.06	<b>0.033</b>	1	1
rs12901215	38992893	-0.17	4.38E-07	5.88E-06	imputed	-0.07	<b>0.019</b>	1	1
rs7183893	38996981	-0.17	8.20E-07	9.80E-06	imputed	-0.06	<b>0.030</b>	0.89	0.95
rs36094159	38998395	-0.17	6.94E-07	8.55E-06	imputed	-0.07	<b>0.019</b>	0.95	1
rs35795311	38998669	-0.17	6.44E-07	8.05E-06	imputed	-0.07	<b>0.019</b>	0.90	1