

Supplementary Table 7. non-GI-TNKL Somatic Mutations

Patient ID	Chromosome	Start	End	Ref	Alt	Cosmic	Variant allele frequency	Mutation type	Transcription ID	Gene	Amino acid change	SnpEff Impact	MutationT aster_pred	PROVE AN_pred	Polyphen2 HDIV_pred	Polyphen2 HVAR_pre	SIFT_pre d	FILTER_Ex AC	AF_TOTL	AF_AFR	AF_AMR	AF_EAS	AF_FIN	AF_NFE	AF_SAS	AF_OTH	AF_Kore aRef
N46	chr16	1389534	1389534	T	C		0.462750716	Missense_Mutation	NM_003933.4	BAIAP3	p.Leu148Pro	MODERA N	D	P	B	T	.	.	.	.	.	.	.	.	.	.	.
N26	chr16	1394080	1394080	C	T		0.213114754	Missense_Mutation	NM_003933.4	BAIAP3	p.Arg517Cys	MODERA D	D	D	P	D	PASS	1.68E-05	0	0	0.000233	0	0	0	0	0	0.001364
N41	chr16	1397585	1397585	C	T		0.540772532	Missense_Mutation	NM_003933.4	BAIAP3	p.Arg990Cys	MODERA N	D	B	B	T	PASS	0.0002481	0	0	0.003168	0	3.35E-05	0	0	0.006818	
N64	chr7	2962827	2962827	G	A	COSM550	0.732758621	Missense_Mutation	NM_001324281.1	CARD11	p.Ser694Leu	MODERA D	N	B	B	T	PASS	0.00034744	0	0	0.004682	0	0	6.07E-05	0	0.002727	
N31	chr7	2969678	2969678	G	T		0.2	Missense_Mutation	NM_001324281.1	CARD11	p.Ala534Asp	MODERA N	N	B	B	T	PASS	0.00015672	0	0	0.002197	0	0	0	0	0.	
N31	chr7	2969679	2969679	C	T		0.198863636	Missense_Mutation	NM_001324281.1	CARD11	p.Ala534Thr	MODERA N	N	B	B	T	PASS	0.00015673	0	0	0.002197	0	0	0	0	0.	
N48	chr7	2976741	2976741	C	T		0.46969697	Missense_Mutation	NM_001324281.1	CARD11	p.Arg424Gln	MODERA N	N	B	B	T	PASS	4.95E-05	0	0	0.000463	0	1.50E-05	6.06E-05	0.	0.	
N14	chr1	3412514	3412514	C	G		0.456834532	Missense_Mutation	NM_001409.3	MEGF6	p.Asp1271His	MODERA D	D	B	B	T	.	.	.	.	.	.	.	.	.	.	.
N44	chr1	3425702	3425702	C	T		0.455078125	Missense_Mutation	NM_001409.3	MEGF6	p.Asp489Asn	MODERA N	N	P	B	T	PASS	0.00011109	0	0	0.000233	0	6.93E-05	0.000219	0	0.000455	
N11	chr20	3654494	3654494	C	T		0.231578947	Missense_Mutation	NM_025220.4	ADAM33	p.Arg268His	MODERA N	N	B	B	T	.	.	.	.	.	.	.	.	.	.	.
N76	chr16	3820912	3820912	G	T		0.545454545	Missense_Mutation	NM_004380.2	CREBBP	p.Pro847Thr	MODERA D	N	B	B	T	PASS	6.59E-05	0	0	0.000925	0	0	0	0	0.000455	
N76	chr16	3900710	3900710	G	A	COSM481	0.603773585	Missense_Mutation	NM_004380.2	CREBBP	p.Ser129Leu	MODERA D	N	D	P	D	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069922	5069922	CAG	C		0.236641221	Indel	NM_001322194.1	JAK2	p.Asp505fs	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069928	5069928	A	C		0.262411348	Missense_Mutation	NM_001322194.1	JAK2	p.Lys506Thr	MODERA D	N	D	P	T	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069930	5069930	T	C		0.262068966	Missense_Mutation	NM_001322194.1	JAK2	p.Ser507Pro	MODERA D	D	D	D	D	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069933	5069933	AACCTT	A		0.259493671	Indel	NM_001322194.1	JAK2	p.Asn508fs	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069939	5069939	C	CA		0.272151899	Indel	NM_001322194.1	JAK2	p.Leu510fs	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069941	5069941	AGT	A		0.275449102	Indel	NM_001322194.1	JAK2	p.Val511fs	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069948	5069948	A	G		0.300578035	Missense_Mutation	NM_001322194.1	JAK2	p.Arg513Gly	MODERA D	D	D	D	D	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069950	5069950	AAC	A		0.287958115	Indel	NM_001322194.1	JAK2	p.Thr514fs	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069954	5069954	A	G		0.287958115	Missense_Mutation	NM_001322194.1	JAK2	p.Asn515Asp	MODERA D	N	B	B	T	.	.	.	.	.	.	.	.	.	.	.
N76	chr9	5069955	5069955	A	T		0.286458333	Missense_Mutation	NM_001322194.1	JAK2	p.Asn515Ile	MODERA D	D	D	P	T	.	.	.	.	.	.	.	.	.	.	.
N66	chr18	5394782	5394782	T	C		0.504761905	Missense_Mutation	NM_012307.3	EPB41L3	p.Gln1055Arg	MODERA D	N	D	D	D	PASS	9.07E-05	0	0	0.001271	0	0	0	0	0.006364	
N22	chr18	5410605	5410605	C	T	COSM288	0.488372093	Missense_Mutation	NM_012307.3	EPB41L3	p.Arg694His	MODERA D	N	D	P	D	PASS	0.00012404	0.000193	0	0.001393	0	0	6.09E-05	0	0.002727	
N40	chr18	5416200	5416200	C	T	COSM363	0.302564103	Missense_Mutation	NM_012307.3	EPB41L3	p.Gly562Arg	MODERA D	N	B	B	T	PASS	8.24E-06	0	0	0	0	0	6.06E-05	0.	0.	
N40	chr19	5832431	5832431	A	C		0.296296296	Missense_Mutation	NM_000150.2	FUT6	p.Phe50Val	MODERA N	N	B	B	T	.	.	.	.	.	.	.	.	.	.	.
N70	chr17	7479956	7479956	A	G		0.482084691	Splice_Site	NM_001416.3	EIF4A1	p.Ile154Val	MODERA D	N	B	B	T	.	.	.	.	.	.	.	.	.	.	.
N52	chr17	7576857	7576857	A	C	COSM116	0.111111111	Missense_Mutation	NM_000546.5	TP53	p.Leu330Arg	MODERA D	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N55	chr17	7576880	7576880	TGGTTTCTT	T		0.196721311	Indel	NM_000546.5	TP53	p.Ser314fs	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N68	chr17	7577534	7577534	C	A	COSM108	0.189655172	Missense_Mutation	NM_000546.5	TP53	p.Arg249Ser	MODERA D	D	D	D	D	.	.	.	.	.	.	.	.	.	.	.
N46	chr17	7578534	7578534	C	G	COSM175	0.839506173	Missense_Mutation	NM_000546.5	TP53	p.Lys132Asn	MODERA D	D	D	D	D	.	.	.	.	.	.	.	.	.	.	.
N12	chr17	8044540	8044540	C	T		0.503496503	Missense_Mutation	NM_002616.2	PER1	p.Ser1240Asn	MODERA N	N	B	B	T	PASS	1.65E-05	0	0	0.000231	0	0	0	0	0.	
N46	chr17	8048254	8048254	GC	G		0.238738739	Indel	NM_002616.2	PER1	p.Ala759fs	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N52	chr17	8159874	8159874	G	A		0.615384615	Missense_Mutation	NM_012393.2	PFAS	p.Arg285Gln	MODERA N	N	B	B	T	PASS	8.25E-05	0	0	0.00081	0	4.50E-05	0	0	0.000909	
N51	chr17	8172118	8172118	T	C		0.592592593	Missense_Mutation	NM_012393.2	PFAS	p.Leu1217Pro	MODERA D	D	P	P	D	PASS	2.58E-05	0	0	0.000359	0	0	0	0	0.001818	
N43	chr8	8185660	8185660	C	T		0.370629371	Missense_Mutation	NM_001080826.2	SGK223	p.Asp878Asn	MODERA D	N	B	B	T	PASS	2.49E-05	0	0	0.000232	0	1.50E-05	0	0	0.000455	
N22	chr8	8234837	8234837	C	T		0.452196382	Missense_Mutation	NM_001080826.2	SGK223	p.Ser361Asn	MODERA N	N	B	B	T	.	.	.	.	.	.	.	.	.	.	.
N51	chr8	8238926	8238926	A	G		0.486486486	Splice_Site	NM_001080826.2	SGK223	.	HIGH	D	.	.	.	.	PASS	7.73E-05	0	0	0.000929	0	1.53E-05	0	0	0.003636
N28	chr9	8338935	8338935	A	C		0.270072993	Missense_Mutation	NM_002839.3	PTPRD	p.Val1789Gly	MODERA D	D	D	D	D	.	.	.	.	.	.	.	.	.	.	.
N36	chr1	8419868	8419868	GCTCCTT	G	COSM368	0.470588235	Indel	NM_001042681.1	RERE	p.Lys1190_Gl	MODERA .	.	.	.	.	.	PASS	0.00401718	0.008532	0.005893	0.007005	0.000641	0.003363	0.002287	0.078014	
N12	chr3	8579053	8579053	T	C		0.448979592	Missense_Mutation	NM_014583.3	LMCD1	p.Ile105Thr	MODERA D	N	P	B	T	PASS	3.31E-05	0.000288	8.64E-05	0	0	0	0	0	0.001111	
N31	chr3	8590329	8590329	C	T	COSM282	0.495967742	Missense_Mutation	NM_014583.3	LMCD1	p.Arg155Cys	MODERA D	D	D	D	D	PASS	0.00034619	0	8.64E-05	0.004278	0	1.50E-05	0.000182	0.001101	0.008182	
N69	chr3	8590329	8590329	C	T	COSM282	0.517799353	Missense_Mutation	NM_014583.3	LMCD1	p.Arg155Cys	MODERA D	D	D	D	D	PASS	0.00034619	0	8.64E-05	0.004278	0	1.50E-05	0.000182	0.001101	0.008182	
N28	chrX	10181963	10181963	C	T		0.979020979	Missense_Mutation	NM_001830.3	CLCN4	p.Pro607Ser	MODERA D	N	B	B	T	PASS	0.00016646	0	0	0.002153	0	0	0	0	0.001818	
N40	chr17	10351820	10351820	T	C		0.204301075	Missense_Mutation	NM_017533.2	MYH4	p.Thr1517Ala	MODERA D	D	P	P	D	.	.	.	.	.	.	.	.	.	.	.
N11	chr17	10352331	10352331	T	G		0.289156627	Missense_Mutation	NM_017533.2	MYH4	p.Glu1405Asp	MODERA D	N	D	P	D	.	.	.	.	.	.	.	.	.	.	.
N75	chr19	10472598	10472598	C	T	COSM473	0.456790123	Missense_Mutation	NM_003331.4	TYK2	p.Val603Met	MODERA N	N	D	D	D	PASS	0.0002813	0.000194	0.000346	0.00081	0	0.000256	0.000242	0.004415	0.002727	
N64	chr19	10472964	10472964	G	A		0.509247842	Splice_Site	NM_003331.4	TYK2	p.Arg549Cys	MODERA N	D	D	P	D	PASS	0.00011596	0	0	0.001505	0	1.51E-05	0	0	0.002727	
N68	chr16	10995975	10995975	C	G		0.533333333	Missense_Mutation	NM_001286402.1	CIITA	p.Pro189Ala	MODERA N	N	B	B	T	.	.	.	.	.	.	.	.	.	.	.
N31	chr19	11094865	11094865	G	A		0.264637002	Missense_Mutation	NM_001128849.1	SMARCA4	p.Arg13Gln	MODERA D	N	P	B	D	PASS	8.47E-06	0	0	0</						





N44	chr8	71069365	71069365	T	G	0.437086093	Missense_Mutation	NM_001321703.1	NCOA2	p.Asn412Thr	MODERA	D	B	B	T	PASS	0.00061088	0	0	0.007683	0	0	0.000445	0	0.004091	
N11	chr8	71075034	71075034	C	T	0.180722892	Nonsense_Mutation	NM_001321703.1	NCOA2	p.Trp296*	HIGH	A	.	.	.	.	.	.	.	.	.	.	.	.	.	
N41	chr17	71282314	71282314	G	A	0.190751445	Missense_Mutation	NM_012121.4	CDC42EP	p.Ser109Leu	MODERA	D	.	D	D	T	PASS	1.66E-05	9.71E-05	0	0	0	1.51E-05	0	0.	
N28	chr4	71390617	71390617	G	A	0.449438202	Missense_Mutation	NM_212557.3	AMTN	p.Gly78Asp	MODERA	N	D	D	D	D	PASS	9.10E-05	0	0	0.001282	0	0	0	0.002273	
N66	chr1	74819792	74819792	T	A	0.498039216	Missense_Mutation	NM_001112808.2	FPGT-TN1	p.Leu500Met	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N68	chr17	76212102	76212102	G	A	0.101123596	Missense_Mutation	NM_001012271.1	BIRC5	p.Gly93Arg	MODERA	N	P	B	T	PASS	9.77E-06	0.00011	0	0	0	0	0	0	0.	
N26	chr17	76212105	76212105	C	T	COSM338	0.141509434	Missense_Mutation	NM_001012271.1	BIRC5	p.Arg94Trp	MODERA	N	P	B	D	PASS	2.97E-05	0	0	0	0	5.17E-05	0	0.	
N48	chr17	76212112	76212112	C	CCT	0.134615385	Indel	NM_001012271.1	BIRC5	p.Arg97fs	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N73	chr10	76719805	76719805	ACTC	A	0.129777778	Indel	NM_012330.3	KAT6B	p.Leu235del	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N23	chr10	76781848	76781848	C	G	0.107142857	Missense_Mutation	NM_012330.3	KAT6B	p.Asp1077Glu	MODERA	N	B	B	T	.	.	.	.	.	.	.	.	.	.	
N41	chr10	76789083	76789083	G	A	0.505952381	Missense_Mutation	NM_012330.3	KAT6B	p.Glu1501Lys	MODERA	N	P	B	D	.	.	.	.	.	.	.	.	.	.	
N52	chr10	76789083	76789083	G	A	0.348214286	Missense_Mutation	NM_012330.3	KAT6B	p.Glu1501Lys	MODERA	N	P	B	D	.	.	.	.	.	.	.	.	.	.	
N23	chr3	77530253	77530253	C	T	0.2	Missense_Mutation	NM_001290040.1	ROBO2	p.Arg184Cys	MODERA	D	D	D	D	PASS	8.30E-06	0	8.69E-05	0	0	0	0	0	0.001111	
N68	chr8	77618720	77618720	GCAGAACG	A	0.113636364	Indel	NM_024721.4	ZFHx4	p.Met802_Asi	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N11	chr3	77684174	77684174	G	A	COSM122	0.603174603	Missense_Mutation	NM_001290040.1	ROBO2	p.Arg1370Glr	MODERA	N	D	P	T	PASS	0.00037469	0.000103	0	0.004787	0	4.52E-05	0	0.001364	
N46	chr3	77684174	77684174	G	A	COSM122	0.264957265	Missense_Mutation	NM_001290040.1	ROBO2	p.Arg1370Glr	MODERA	N	D	P	T	PASS	0.00037469	0.000103	0	0.004787	0	4.52E-05	0	0.001364	
N73	chr8	77754941	77754941	G	C	0.502173913	Missense_Mutation	NM_024721.4	ZFHx4	p.Glu1149Gln	MODERA	N	B	B	T	PASS	3.99E-05	0	0	0.001462	0	0	0	0	0.000909	
N51	chr8	77766298	77766298	G	A	0.436781609	Missense_Mutation	NM_024721.4	ZFHx4	p.Ala2381Thr	MODERA	N	B	B	D	PASS	0.00012431	0	0	0.001631	0	0	6.06E-05	0	0.000909	
N55	chr8	77775646	77775646	T	TTGCTTTTCTCA	0.15942029	Indel	NM_024721.4	ZFHx4	p.Val3232_Vi	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N36	chr7	77789464	77789464	G	T	0.474576271	Missense_Mutation	NM_012301.3	MAGI2	p.Pro908His	MODERA	N	D	P	T	PASS	9.92E-05	0	0	0.00104	0	4.51E-05	0	0.002727		
N43	chr17	78059859	78059859	G	A	COSM453	0.391666667	Missense_Mutation	NM_017950.3	CCDC40	p.Glu765Lys	MODERA	D	D	P	T	PASS	0.00016608	0	0	0.002204	0	1.50E-05	0	0.005	
N64	chr17	78064005	78064005	C	T	0.598784195	Missense_Mutation	NM_001243342.1	CCDC40	p.Thr967Met	MODERA	N	.	.	D	.	.	.	.	.	.	.	.	.	.	
N68	chr17	78064139	78064139	C	CGAA	0.263157895	Indel	NM_001243342.1	CCDC40	p.Arg1012dup	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N51	chr6	79655029	79655029	C	T	0.461538462	Missense_Mutation	NM_017934.5	PHIP	p.Val1606Ile	MODERA	N	B	B	T	PASS	1.65E-05	0	0	0.000231	0	0	0	0	0.	
N76	chr11	82443648	82443648	G	C	0.451467269	Missense_Mutation	NM_175885.3	FAM181B	p.Pro375Arg	MODERA	N	P	P	D	PASS	2.02E-05	0	0	0.000247	0	0	0	0	0.000455	
N28	chr1	86304317	86304317	G	A	0.438596491	Missense_Mutation	NM_152890.5	COL24A1	p.Pro1211Leu	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N38	chr1	86426944	86426944	T	G	0.566091954	Missense_Mutation	NM_152890.5	COL24A1	p.Lys850Asn	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N60	chr1	86590929	86590929	T	A	0.157575758	Nonsense_Mutation	NM_152890.5	COL24A1	p.Lys364*	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N11	chr1	86590983	86590983	T	A	0.205357143	Missense_Mutation	NM_152890.5	COL24A1	p.Asn346Tyr	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	0.000455	
N68	chr1	86591332	86591332	T	G	0.2	Missense_Mutation	NM_152890.5	COL24A1	p.Glu229Asp	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N31	chr16	87921784	87921784	C	T	0.529411765	Missense_Mutation	NM_001739.1	CA5A	p.Arg290Gln	MODERA	D	D	D	D	PASS	5.77E-05	0	8.64E-05	0.000116	0	1.50E-05	0.000182	0.001104	0.000909	
N48	chr15	88472435	88472435	G	A	COSM201	0.53968254	Splice_Site	NM_001012338.2	NTRK3	p.Thr707Met	MODERA	D	D	P	D	PASS	3.30E-05	0	0	0.000231	0	0	0.000121	0.	
N36	chr4	88957405	88957405	A	G	0.525	Missense_Mutation	NM_000297.3	PKD2	p.Tyr248Cys	MODERA	D	D	D	D	PASS	9.11E-05	9.76E-05	0	0.00116	0	0	0	0	0.001818	
N75	chr4	88957405	88957405	A	G	0.41509434	Missense_Mutation	NM_000297.3	PKD2	p.Tyr248Cys	MODERA	D	D	D	D	PASS	9.11E-05	9.76E-05	0	0.00116	0	0	0	0	0.001818	
N48	chr15	90176198	90176198	G	C	0.515151515	Missense_Mutation	NM_198525.2	KIF7	p.Asp916Glu	MODERA	D	B	B	D	PASS	8.54E-06	0	0	0.000118	0	0	0	0	0.	
N70	chr15	90185484	90185484	G	A	COSM434	0.606965174	Missense_Mutation	NM_198525.2	KIF7	p.Arg782Trp	MODERA	D	D	P	D	PASS	1.74E-05	0	0	0	0	3.17E-05	0	0.	
N36	chr15	90631837	90631837	C	G	COSM133	0.210843373	Missense_Mutation	NM_002168.3	IDH2	p.Arg172Ser	MODERA	D	D	D	D	.	.	.	.	.	.	.	.	.	
N73	chr15	90631929	90631929	T	G	COSM594	0.481124498	Missense_Mutation	NM_002168.3	IDH2	p.Ile142Leu	MODERA	N	P	P	D	PASS	8.24E-06	0	0	0.000116	0	0	0	0.000909	
N11	chr10	90771840	90771840	T	C	0.3	Splice_Site	NM_000043.5	FAS	HIGH	D	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N64	chr10	90773124	90773124	G	T	0.234899329	Nonsense_Mutation	NM_001320619.1	FAS	p.Ter198Leu	HIGH	D	D	D	D	.	.	.	.	.	.	.	.	.	.	
N40	chr10	94821816	94821816	A	G	0.50728863	Missense_Mutation	NM_183374.2	CYP26C1	p.Lys85Arg	MODERA	N	P	D	T	.	.	.	.	.	.	.	.	.	.	
N48	chr10	94828149	94828149	C	A	0.403508772	Missense_Mutation	NM_183374.2	CYP26C1	p.Arg422Ser	MODERA	N	B	B	T	PASS	3.63E-05	0	0	0.000358	0	0	0	0	0.000909	
N36	chr7	94898699	94898699	G	T	0.525252525	Missense_Mutation	NM_001166160.1	PPP1R9A	p.Gly1002Trp	MODERA	N	P	B	D	PASS	6.80E-05	0	0	0.000964	0	0	0	0	0.003182	
N36	chr8	95871760	95871760	T	C	0.484615385	Missense_Mutation	NM_017864.3	INTS8	p.Ile659Thr	MODERA	D	B	B	D	.	.	.	.	.	.	.	.	.	.	
N70	chr14	99640672	99640672	G	A	COSM137	0.328621908	Missense_Mutation	NM_138576.3	BCL11B	p.Ala834Val	MODERA	D	D	D	D	.	.	.	.	.	.	.	.	.	
N41	chr14	99641990	99641990	A	T	0.277777778	Missense_Mutation	NM_138576.3	BCL11B	p.Phe395Ile	MODERA	D	D	D	D	.	.	.	.	.	.	.	.	.	.	
N26	chr9	100194348	100194348	A	G	0.527027027	Missense_Mutation	NM_014290.2	TDRD7	p.Asn131Asp	MODERA	N	B	B	T	PASS	0.00041224	0	0	0.00578	0	0	0	0	0.008636	
N43	chr9	100194348	100194348	A	G	0.483146067	Missense_Mutation	NM_014290.2	TDRD7	p.Asn131Asp	MODERA	N	B	B	T	PASS	0.00041224	0	0	0.00578	0	0	0	0	0.008636	
N22	chr9	100240748	100240748	C	T	COSM118	0.434042553	Missense_Mutation	NM_014290.2	TDRD7	p.Leu732Phe	MODERA	D	D	D	D	PASS	3.30E-05	0	0	0.000116	0	0	0.000182	0.	
N70	chr9	100245445	100245445	G	T	0.178423237	Missense_Mutation	NM_014290.2	TDRD7	p.Lys909Asn	MODERA	N	B	B	T	.	.	.	.	.	.	.	.	.	.	
N73	chr15	101529581	101529581	C	A	0.48696845	Missense_Mutation	NM_024652.4	LRRK1	p.Pro247His	MODERA	N	B	B	D	.	.	.	.	.	.	.	.	.	.	
N66	chr15	101593206	101593206	A	G	COSM989	0.497524752	Missense_Mutation	NM_024652.4	LRRK1	p.Ile1257Val	MODERA	N	D	P	T	PASS	2.52E-05	0	0	0.000351	0	0	0	0	0.002273
N31	chr8	101716537	101716537	G	A	0.290456432	Missense_Mutation	NM_002568.3	PABPC1	p.Pro634Ser	MODERA	N	B	B	D	.	.	.	.	.	.	.	.	.	.	
N69	chr8	101719224	101719224	T	TGGATGAGGCTCG	0.102515723	Indel	NM_002568.3	PABPC1	p.Pro446_Phe	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N64	chr4	103537684	103537684	C	T	COSM442	0.43358396	Missense_Mutation	NM_003998.3	NFKB1	p.Ser948Leu	MODERA	N	B	B	D	PASS	8.24E-06	0	0	0	0	0	6.06E-05	0.	
N38	chr14	105243058	105243058	G	C	0.578849722	Missense_Mutation	NM_001014431.1	AKT1	p.Ile75Met	MODERA	N	D	D	D	PASS	1.66E-05	0	0	0.000232	0	0	0	0	0.001364	
N68	chr4	106155299	106155299	A	C	0.163265306	Missense_Mutation	NM_001127208.2	TET2	p.Lys67Thr	MODERA	N	D	P	D	.	.	.	.	.	.	.	.	.	.	
N66	chr4	106157521	106157521	T	A	0.452282158	Missense_Mutation	NM_001127208.2	TET2	p.Glu808Lys	MODERA	N	B	B	T	.	.	.	.	.	.	.	.	.	.	
N40	chr4	106157548	106157548	T	TC	0.345454545	Indel	NM_001127208.2	TET2	p.Tyr819fs	HIGH	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N51	chr4	106164085	106164085	G	T	COSM438	0.168	Splice_Site	NM_001127208.2	TET2	HIGH	D	.	.	.	.	.	.	.	.	.	.	.	.	.	
N14	chr4	106180796	106180796	G	T	0.147286822	Missense_Mutation	NM_001127208.2	TET2	p.Gly1275Val	MODERA	D	D	D	D	.	.									



N40	chr6	157528016	157528016	G	A		0.515873016	Missense_Mutation	NM_020732.3	ARID1B	p.Arg1914Glr	MODERA	D	N	D	P	T	PASS	8.24E-06	9.63E-05	0	0	0	0	0	0	0	0	0.000455
N55	chr1	157665940	157665940	G	C		0.346938776	Missense_Mutation	NM_001320333.1	FCRL3	p.Ala341Gly	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
N70	chr1	157666085	157666085	G	A	COSM244	0.578723404	Missense_Mutation	NM_001320333.1	FCRL3	p.Arg293Trp	MODERA	.	.	.	.	.	.	PASS	0.00024746	0.00029	0	0.00104	0.000151	0.00024	6.06E-05	0	0.003636	
N60	chr1	158064154	158064154	G	A	COSM198	0.527210884	Missense_Mutation	NM_018240.6	KIRREL	p.Asp591Asn	MODERA	.	.	.	.	.	.	PASS	0.00022513	0	0	0.002776	0	3.53E-05	0	0	0.004545	
N48	chr1	158064804	158064804	C	T	COSM402	0.321428571	Missense_Mutation	NM_018240.6	KIRREL	p.Ala723Val	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	0.001818	
N14	chr6	159642717	159642717	G	A	COSM120	0.457831325	Missense_Mutation	NM_032532.2	FNDC1	p.Arg252Gln	MODERA	N	D	D	T	PASS	1.66E-05	0	0	0	0.000151	1.50E-05	0	0	0	0		
N28	chr6	159660816	159660816	C	T		0.472222222	Missense_Mutation	NM_032532.2	FNDC1	p.Thr1483Ile	MODERA	D	N	B	B	D	PASS	1.94E-05	0	0	0.000241	0	0	0	0	0	0.000455	
N51	chr1	161496342	161496342	G	C		0.363636364	Missense_Mutation	NM_002155.4	HSPA6	p.Asp632His	MODERA	.	.	.	.	.	.	PASS	1.94E-05	0	0	0.000241	0	0	0	0	0.000455	
N31	chr4	165118825	165118825	G	C		0.216346154	Missense_Mutation	NM_012403.1	ANP32C	p.Asn13Lys	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N28	chr4	169292905	169292905	G	A		0.455696203	Missense_Mutation	NM_001012967.2	DDX60L	p.Arg1596Cys	MODERA	N	D	B	B	T	PASS	0.00024977	0	0	0.002896	0	6.68E-05	0	0	0.002273		
N23	chr4	169315740	169315740	C	T		0.409638554	Missense_Mutation	NM_001012967.2	DDX60L	p.Arg1229Glr	MODERA	N	B	B	B	T	PASS	0.00036456	0.003574	0.000692	0	0	1.50E-05	0	0.008909	.		
N76	chr6	170064322	170064322	T	C	COSM285	0.473317865	Missense_Mutation	NM_182552.4	WDR27	p.Arg282Gly	MODERA	D	B	B	B	T	PASS	0.00037945	0	0	0.005108	0	1.51E-05	0	0	0.007273		
N75	chr1	172548378	172548378	C	T		0.209150327	Missense_Mutation	NM_016227.3	SUCO	p.Ser641Phe	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N76	chr5	176638846	176638846	A	G		0.529891304	Missense_Mutation	NM_022455.4	NSD1	p.Asn1149Ser	MODERA	N	B	B	B	T	PASS	4.95E-05	0	0	0.000463	0	3.00E-05	0	0	0		
N60	chr5	176694670	176694670	A	G		0.523809524	Missense_Mutation	NM_022455.4	NSD1	p.Lys1752Glu	MODERA	D	D	D	D	D	PASS	4.95E-05	0	0	0.000463	0	3.00E-05	0	0	0		
N52	chr5	176722221	176722221	G	A		0.472222222	Missense_Mutation	NM_022455.4	NSD1	p.Val2618Ile	MODERA	N	B	B	B	T	PASS	0.00012366	0	8.64E-05	0.001272	0	1.50E-05	0.000121	0.001104	0.005		
N64	chr4	177046390	177046390	G	A		0.274	Missense_Mutation	NM_170710.4	WDR17	p.Arg249His	MODERA	N	D	P	D	PASS	2.47E-05	0.000288	0	0	0	0	0	0	0	0	0	
N11	chr4	177089798	177089798	G	T	COSM693	0.223214286	Splice_Site	NM_170710.4	WDR17	HIGH	N	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N55	chr5	180030262	180030262	G	A	COSM490	0.153846154	Missense_Mutation	NM_182925.4	FLT4	p.Ser1341Leu	MODERA	N	B	B	B	T	PASS	8.50E-06	0	0	0	0	1.55E-05	0	0	0.000455		
N70	chr2	186653723	186653723	A	C		0.455882353	Missense_Mutation	NM_173651.3	FSIP2	p.Gln620His	MODERA	D	.	.	.	T	.	.	.	.	.	.	.	.	.	.	0.000455	
N48	chr2	186655266	186655266	A	C		0.393617021	Missense_Mutation	NM_173651.3	FSIP2	p.Ser1135Arg	MODERA	N	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	
N69	chr2	186655924	186655924	C	T		0.380952381	Missense_Mutation	NM_173651.3	FSIP2	p.Ala1354Val	MODERA	N	.	.	.	T	PASS	7.10E-05	0	0	0	0	0	0.000131	0	0		
N12	chr2	186665961	186665961	G	T		0.12195122	Missense_Mutation	NM_173651.3	FSIP2	p.Leu3976Phe	MODERA	D	.	.	.	D	.	.	.	.	.	.	.	.	.	.	.	
N75	chr2	186666353	186666353	C	G		0.461538462	Missense_Mutation	NM_173651.3	FSIP2	p.Pro4107Arg	MODERA	D	.	.	.	D	.	.	.	.	.	.	.	.	.	.	.	
N40	chr2	186666824	186666824	G	A		0.5125	Missense_Mutation	NM_173651.3	FSIP2	p.Ser4264Asn	MODERA	N	.	.	.	D	.	.	.	.	.	.	.	.	.	.	.	
N69	chr2	186666859	186666859	G	A		0.282142857	Missense_Mutation	NM_173651.3	FSIP2	p.Asp4276Asi	MODERA	D	.	.	.	D	.	.	.	.	.	.	.	.	.	.	.	
N23	chr2	186672712	186672712	A	T		0.162790698	Missense_Mutation	NM_173651.3	FSIP2	p.Ser6227Cys	MODERA	D	.	.	.	D	.	.	.	.	.	.	.	.	.	.	.	
N70	chr2	186673101	186673101	G	T		0.221698113	Missense_Mutation	NM_173651.3	FSIP2	p.Leu6356Phe	MODERA	D	.	.	.	D	.	.	.	.	.	.	.	.	.	.	.	
N70	chr2	186673119	186673119	G	T		0.231884058	Missense_Mutation	NM_173651.3	FSIP2	p.Leu6362Phe	MODERA	D	.	.	.	T	.	.	.	.	.	.	.	.	.	.	.	
N46	chr1	200635460	200635460	G	C		0.491071429	Missense_Mutation	NM_001031725.5	DDX59	p.Leu137Val	MODERA	.	.	.	.	.	PASS	0.0001977	0	0	0.002773	0	0	0	0	0.004091		
N48	chr2	201459998	201459998	G	A	COSM369	0.471428571	Missense_Mutation	NM_001159.3	AOX1	p.Arg36Gln	MODERA	N	B	B	T	PASS	8.48E-06	0	0	0.000116	0	0	0	0	0	0		
N31	chr2	202134329	202134329	G	A	COSM335	0.522123894	Splice_Site	NM_001228.4	CASP8	HIGH	N	.	.	.	.	.	PASS	3.04E-05	0	0	0.000281	0	0	0	0	0.000455		
N68	chr1	204236624	204236624	G	A		0.41025641	Missense_Mutation	NM_014935.4	PLEKHA6	p.Arg87Cys	MODERA	.	.	.	.	.	PASS	9.06E-05	0	0	0.001271	0	0	0	0	0.000909		
N73	chr1	205901160	205901160	G	T		0.482728843	Missense_Mutation	NM_134325.2	SLC26A9	p.Thr127Asn	MODERA	.	.	.	.	.	PASS	6.64E-05	0	0	0.000925	0	0	0	0	0.003182		
N22	chr1	212873042	212873042	G	C		0.212121212	Missense_Mutation	NM_018664.2	BATF3	p.Asn21Lys	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N60	chr1	237619984	237619984	G	A		0.61746988	Missense_Mutation	NM_001035.2	RYR2	p.Glu521Lys	MODERA	.	.	.	.	.	PASS	9.12E-05	0	0	0.001277	0	0	0	0	0.002273		
N64	chr1	237780587	237780587	T	C		0.363636364	Splice_Site	NM_001035.2	RYR2	p.Met1906Thu	MODERA	.	.	.	.	.	PASS	3.95E-05	0	0	0.000587	0	0	0	0	0		
N68	chr1	237801763	237801763	A	G		0.188679245	Missense_Mutation	NM_001035.2	RYR2	p.Asp2300Gly	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N55	chr1	241261966	241261966	C	G		0.272727273	Splice_Site	NM_002924.5	RGS7	p.Gly59Arg	MODERA	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
N41	chr1	241946599	241946599	G	A	COSM134	0.187878788	Missense_Mutation	NM_144625.4	WDR64	p.Arg864His	MODERA	.	.	.	.	.	PASS	0.00041288	0.000674	0.000519	0.003824	0	4.51E-05	6.06E-05	0.006637	0.003182		
N51	chr1	241946599	241946599	G	A	COSM134	0.555555556	Missense_Mutation	NM_144625.4	WDR64	p.Arg864His	MODERA	.	.	.	.	.	PASS	0.00041288	0.000674	0.000519	0.003824	0	4.51E-05	6.06E-05	0.006637	0.003182		