



27-MGA-metaplastic	ERCC2	p.Asp245Asn	missense_variant	19	45867575	C	T	SNV	79	6.33%	0.15	Passenger	PASSENGER/OTHER	LOH	TRUE	TRUE	TRUE
27-MGA-metaplastic	RAD51B	p.Asp210His	missense_variant	14	68353793	G	C	SNV	133	6.77%	0.17	Passenger	PASSENGER/OTHER	LOH	.	TRUE	TRUE
27-MGA-metaplastic	TP53	p.Cys176Phe	missense_variant	17	7578403	C	A	SNV	84	54.76%	1	Driver	CANCER	LOH	TRUE	TRUE	TRUE
4-MGA	ERCC3	p.Lys597Gln	missense_variant	2	128030479	T	G	SNV	141	13.48%	0.83	Passenger	PASSENGER/OTHER	.	.	.	TRUE
4-MGA	HRNR	p.Ser438Thr	missense_variant	1	152192792	C	G	SNV	91	14.29%	0.88	Passenger	PASSENGER/OTHER	.	.	.	TRUE
4-MGA	SPTA1	p.Arg156Trp	missense_variant	1	158651382	G	A	SNV	113	34.51%	1	Passenger	PASSENGER/OTHER	.	.	.	TRUE
4-MGA	TP53	p.Tyr163Cys	missense_variant	17	7578442	T	C	SNV	117	46.15%	1	Driver	CANCER	LOH	TRUE	TRUE	TRUE
4-MGA	XPC	p.Arg393Gly	missense_variant	3	14200206	G	C	SNV	83	13.25%	0.68	Passenger	PASSENGER/OTHER	LOH	.	.	TRUE
5-MGA	LAMA5	p.Arg79Gly	missense_variant	20	60942066	T	C	SNV	48	20.83%	0.84	Passenger	PASSENGER/OTHER	.	.	.	TRUE
5-MGA	MED12	p.Asp1204Glu	missense_variant	X	70349200	C	A	SNV	62	22.58%	0.91	Passenger	PASSENGER/OTHER	.	TRUE	.	TRUE
5-MGA	MXRA5	p.Glu58Lys	missense_variant	X	3261703	C	T	SNV	91	20.88%	0.84	Passenger	PASSENGER/OTHER	.	TRUE	.	TRUE
5-MGA	TP53	p.Leu265fs	frameshift_variant	17	7577146	T	TA	Indel	50	38.00%	1	.	.	LOH	TRUE	TRUE	TRUE
5-MGA	TSC2	p.Ala289Val	missense_variant	16	2108765	C	T	SNV	78	20.51%	0.82	Passenger	PASSENGER/OTHER	LOH	.	.	TRUE
5-MGA-DCIS	AHNAK2	p.Pro3265Ser	missense_variant	14	105411995	G	A	SNV	98	43.88%	1	Passenger	PASSENGER/OTHER	LOH	.	.	TRUE
5-MGA-DCIS	BRIP1	p.Lys1086Arg	missense_variant	17	59761150	T	C	SNV	194	22.16%	1	Passenger	PASSENGER/OTHER	.	.	.	TRUE
5-MGA-DCIS	KMT2C	p.Arg.894Gln	missense_variant	7	151932990	C	T	SNV	80	3.75%	1	Passenger	PASSENGER/OTHER	.	.	.	TRUE
5-MGA-DCIS	TP53	p.Val1173Leu	missense_variant	17	7578413	C	A	SNV	180	30.56%	1	Driver	CANCER	LOH	TRUE	TRUE	TRUE
5-MGA-DCIS	ZFXH3	p.Lys801Asn	missense_variant	16	72991642	T	A	SNV	139	22.30%	1	Passenger	PASSENGER/OTHER	.	TRUE	.	TRUE
5-MGA-DCIS	ZFXH4	p.Asp2894Glu	missense_variant	8	77767839	C	A	SNV	222	17.12%	1	Passenger	PASSENGER/OTHER	.	.	.	TRUE
5-MGA-IDC	FANCD2	p.Glu807Asp	missense_variant	3	10108928	G	T	SNV	198	5.05%	0.16	Passenger	PASSENGER/OTHER	.	.	.	TRUE
5-MGA-IDC	KMT2D	p.Thr2017Ser	missense_variant	12	49435931	G	C	SNV	105	10.48%	0.34	Passenger	PASSENGER/OTHER	LOH	TRUE	TRUE	TRUE
5-MGA-IDC	LAMA5	p.Asp79Gly	missense_variant	20	60942066	T	C	SNV	105	20.00%	0.84	Passenger	PASSENGER/OTHER	.	.	.	TRUE
5-MGA-IDC	MDN1	p.Ala1405Ser	missense_variant	6	90453399	C	A	SNV	142	23.24%	0.75	Passenger	PASSENGER/OTHER	.	.	.	TRUE
5-MGA-IDC	MED12	p.Asp1204Glu	missense_variant	X	70349200	C	A	SNV	157	18.47%	0.6	Passenger	PASSENGER/OTHER	.	TRUE	.	TRUE
5-MGA-IDC	MSH2	p.Asp502His	missense_variant	2	47690287	G	C	SNV	123	4.07%	0.13	Passenger	CANCER	.	.	.	TRUE
5-MGA-IDC	MXRA5	p.Glu58Lys	missense_variant	X	3261703	C	T	SNV	214	20.56%	0.66	Passenger	PASSENGER/OTHER	.	TRUE	.	TRUE
5-MGA-IDC	SOS1	p.Gly597Ala	missense_variant	2	39249779	C	G	SNV	134	11.94%	0.38	Passenger	PASSENGER/OTHER	.	.	.	TRUE
5-MGA-IDC	TP53	p.Leu265fs	frameshift_variant	17	7577146	T	TA	Indel	158	17.09%	0.55	.	.	LOH	TRUE	TRUE	TRUE
5-MGA-IDC	TSC2	p.Ala289Val	missense_variant	16	2108765	C	T	SNV	215	33.95%	1	Passenger	PASSENGER/OTHER	LOH	.	.	TRUE
7-ACC	TP53	p.Arg273Cys	missense_variant	17	7577121	G	A	SNV	77	55.84%	1	Driver	CANCER	LOH	TRUE	TRUE	TRUE
7-MGA	PTEN	p.Met134Ile	missense_variant	10	89692918	G	T	SNV	892	32.06%	0.96	Driver	CANCER	LOH	TRUE	TRUE	TRUE
7-MGA	TP53	p.Arg175His	missense_variant	17	7578406	C	T	SNV	687	51.97%	1	Driver	CANCER	LOH	TRUE	TRUE	TRUE
7-MGA-metaplastic	APC	p.Ser1539*	stop_gained	5	112175907	C	G	SNV	516	43.60%	1	.	.	LOH	TRUE	TRUE	TRUE
7-MGA-metaplastic	CDKN2A	p.Arg80*	stop_gained	9	21971120	G	A	SNV	90	47.78%	1	.	PASSENGER/OTHER	LOH	TRUE	TRUE	TRUE
7-MGA-metaplastic	PTEN	p.Met134Ile	missense_variant	10	89692918	G	T	SNV	688	31.10%	1	Driver	CANCER	LOH	TRUE	TRUE	TRUE
7-MGA-metaplastic	TP53	p.Arg175His	missense_variant	17	7578406	C	T	SNV	215	50.70%	1	Driver	CANCER	LOH	TRUE	TRUE	TRUE
8-MGA	BRCA1	p.Leu1525fs	frameshift_variant	17	41226510	CT	C	Indel	218	41.74%	1	.	.	LOH	TRUE	TRUE	TRUE
8-MGA	NCOA3	p.Pro973Leu	missense_variant	20	46268531	C	T	SNV	186	8.06%	0.3	Passenger	PASSENGER/OTHER	.	.	.	TRUE
8-MGA	TP53	p.Arg175His	missense_variant	17	7578406	C	T	SNV	191	51.83%	1	Driver	CANCER	LOH	TRUE	TRUE	TRUE
8-MGA	XPC	p.Lys391Asn	missense_variant	3	14200210	C	G	SNV	235	10.21%	0.39	Passenger	PASSENGER/OTHER	.	.	.	TRUE
8-MGA-IDC	BRCA1	p.Leu1525fs	frameshift_variant	17	41226510	CT	C	Indel	331	46.53%	1	.	.	LOH	TRUE	TRUE	TRUE
8-MGA-IDC	MACF1	p.Ile3806Ser	missense_variant	1	39900123	T	G	SNV	221	25.34%	1	Passenger	PASSENGER/OTHER	LOH	.	.	TRUE
8-MGA-IDC	TP53	p.Arg175His	missense_variant	17	7578406	C	T	SNV	220	36.82%	1	Driver	CANCER	LOH	TRUE	TRUE	TRUE
9-ACC	CDH1	p.Leu669His	missense_variant	16	68857371	T	A	SNV	690	10.87%	0.5	Passenger	PASSENGER/OTHER	.	TRUE	TRUE	TRUE
9-ACC	EPPK1	p.Cys1423Arg	missense_variant	8	144943155	A	G	SNV	841	17.95%	1	Passenger	PASSENGER/OTHER	.	.	TRUE	TRUE
9-ACC	ERBB4	.	splice_acceptor_variant & intron_variant	2	212484001	C	A	SNV	239	46.03%	1	.	.	.	.	TRUE	TRUE
9-ACC	TP53	p.Met237Ile	missense_variant	17	7577570	C	T	SNV	568	35.74%	0.92	Driver	CANCER	LOH	TRUE	TRUE	TRUE
9-ACC-ICNST	AK9	p.Ile181Thr	missense_variant	6	109980519	A	G	SNV	102	16.67%	0.71	Passenger	PASSENGER/OTHER	.	.	.	TRUE
9-ACC-ICNST	ERBB4	.	splice_acceptor_variant & intron_variant	2	212484001	C	A	SNV	83	66.27%	1	.	.	.	.	TRUE	TRUE
9-ACC-ICNST	KMT2D	p.Ser843fs	frameshift_variant	12	49444938	GA	G	Indel	140	15.00%	0.49	.	.	LOH	TRUE	TRUE	TRUE
9-ACC-ICNST	PIK3CA	p.Glu542Lys	missense_variant	3	178936082	G	A	SNV	128	25.00%	1	Driver	CANCER	.	TRUE	TRUE	TRUE
9-ACC-ICNST	TP53	p.Met237Ile	missense_variant	17	7577570	C	T	SNV	107	88.79%	1	Driver	CANCER	.	TRUE	TRUE	TRUE
9-MGA	INPP4B	p.Asn223Tyr	missense_variant	4	143181666	T	A	SNV	51	13.73%	1	.	PASSENGER/OTHER	.	.	.	TRUE
9-MGA-DCIS	DCHS2	p.Ile415Met	missense_variant	4	155254618	A	C	SNV	87	9.20%	1	Passenger	PASSENGER/OTHER	.	.	.	TRUE
9-MGA-DCIS	MACF1	p.Gly3580Asp	missense_variant	1	39895535	G	A	SNV	107	12.15%	1	Passenger	PASSENGER/OTHER	.	.	.	TRUE
9-MGA-DCIS	MAP2K2	p.Asp311Tyr	missense_variant	19	4097330	C	A	SNV	188	4.79%	1	Passenger	CANCER	.	.	.	TRUE
9-MGA-DCIS	PRKCG	p.Ala651Val	missense_variant	19	54410007	C	T	SNV	97	8.25%	1	Passenger	PASSENGER/OTHER	.	.	.	TRUE