Supplementary Table S2: Sequencing statistics and non-synonymous somatic mutations identified in cfDNA and tumor tissue of ovarian and breast cancer patients included in this study.

Sequencing statistics

Cancer type	Sample ID	Sample type	Target panel	Target territory	Total reads	PCT selected bases	Mean target coverage	PCT target bases 2X	PCT target bases 10X	PCT target bases 20X	PCT target bases 30X	PCT target bases 40X	PCT target bases 50X	PCT target bases 100X
Ovarian	OCT1N	Normal	Custom	620092	34382937	70.6%	1221.199235	99.0%	98.4%	98.0%	97.8%	97.6%	97.4%	96.8%
Ovarian	OCT2N	Normal	Custom	620092	31384580	72.5%	1226.295542	99.0%	98.4%	98.0%	97.8%	97.6%	97.5%	96.9%
Ovarian	OCT3N	Normal	Custom	620092	32124938	68.6%	1031.71277	99.2%	98.3%	97.9%	97.7%	97.4%	97.3%	96.5%
Ovarian	OCT5N	Normal	Custom	620092	45008408	88.9%	1749.515579	99.4%	98.9%	98.6%	98.4%	98.3%	98.1%	97.5%
Ovarian	OCT6N	Normal	Custom	620092	32832767	73.4%	1389.629454	99.2%	98.5%	98.1%	97.8%	97.6%	97.5%	96.9%
Ovarian	OCT7N	Normal	Custom	620092	41918725	88.5%	1589.93315	99.5%	99.0%	98.7%	98.5%	98.3%	98.1%	97.5%
Ovarian	OCT8N	Normal	Custom	620092	44279304	89.0%	1728.309216	99.5%	98.8%	98.6%	98.5%	98.3%	98.1%	97.5%
Ovarian	OCT9N	Normal	Custom	620092	29629975	66.8%	851.58321	99.0%	98.2%	97.8%	97.6%	97.4%	97.2%	96.4%
Ovarian	OCT10N	Normal	Custom	620092	47606661	89.0%	1881.950634	99.5%	99.0%	98.7%	98.6%	98.4%	98.3%	97.7%
Ovarian	OCT11N	Normal	Custom	620092	42094703	71.1%	1495.000685	99.3%	98.4%	98.0%	97.8%	97.6%	97.5%	96.9%
Ovarian	OCT12N	Normal	Custom	620092	38706250	89.1%	1556.10789	99.5%	98.9%	98.6%	98.4%	98.2%	98.1%	97.5%
Ovarian	OCT13N	Normal	Custom	620092	38600462	89.0%	1568.942694	99.6%	99.1%	98.7%	98.6%	98.4%	98.2%	97.6%
Ovarian	OCT14N	Normal	Custom	620092	43414677	88.5%	1579.440514	99.4%	98.9%	98.7%	98.5%	98.2%	98.1%	97.5%
Ovarian	OCT15N	Normal	Custom	620092	48185105	87.8%	1615.701486	99.6%	99.0%	98.7%	98.5%	98.4%	98.2%	97.6%
Ovarian	OCT17N	Normal	Custom	620092	27728654	89.3%	1185.396987	99.5%	98.8%	98.5%	98.2%	98.0%	97.8%	97.2%
Ovarian	OCT18N	Normal	Custom	620092	41993244	88.8%	1630.102597	99.6%	99.0%	98.8%	98.6%	98.4%	98.2%	97.6%
Ovarian	OCT19N	Normal	Custom	620092	48221983	91.6%	2167.377477	99.6%	99.0%	98.8%	98.6%	98.4%	98.3%	97.7%
Ovarian	OCT20N	Normal	Custom	620092	51133875	91.9%	2271.768154	99.6%	99.1%	98.8%	98.7%	98.6%	98.5%	97.9%
Ovarian	OCT21N	Normal	Custom	620092	23753847	88.4%	1467.427973	99.1%	98.6%	98.3%	98.0%	97.8%	97.7%	97.0%
Ovarian	OCT1C2	Plasma	Custom	620092	116666732	87.8%	2997.190788	98.9%	98.5%	98.3%	98.1%	98.0%	97.8%	97.2%
Ovarian	OCT2C2	Plasma	Custom	620092	100816622	90.3%	4156.585952	98.8%	98.2%	97.9%	97.7%	97.5%	97.3%	96.7%
Ovarian	OCT3C2	Plasma	Custom	620092	111246612	87.4%	2534.855991	99.2%	98.7%	98.5%	98.3%	98.1%	98.0%	97.3%
Ovarian	OCT5C2	Plasma	Custom	620092	102645039	87.3%	2548.822348	99.0%	98.5%	98.2%	98.0%	97.8%	97.6%	97.0%
Ovarian	OCT6C2	Plasma	Custom	620092	102752635	84.0%	1580.449055	98.8%	98.4%	98.0%	97.7%	97.4%	97.2%	96.4%
Ovarian	OCT7C	Plasma	Custom	620092	99890737	83.5%	1518.619482	98.8%	98.3%	97.9%	97.6%	97.3%	97.1%	96.3%
Ovarian	OCT8C	Plasma	Custom	620092	66014634	87.4%	1535.940105	98.9%	98.2%	97.8%	97.4%	97.2%	96.9%	96.0%
Ovarian	OCT9C1	Plasma	Custom	620092	121614695	85.7%	2887.081909	99.1%	98.6%	98.3%	98.1%	98.0%	97.8%	97.1%
Ovarian	OCT10C1	Plasma	Custom	620092	75637069	81.6%	1364.473883	98.9%	98.3%	98.0%	97.7%	97.4%	97.2%	96.4%
Ovarian	OCT11C1	Plasma	Custom	620092	84786619	86.7%	2588.77346	98.9%	98.5%	98.2%	97.9%	97.7%	97.5%	96.9%
Ovarian	OCT12C2	Plasma	Custom	620092	78194934	87.7%	2561.444382	98.9%	98.1%	97.7%	97.4%	97.2%	97.0%	96.2%
Ovarian	OCT13C1	Plasma	Custom	620092	82756675	84.3%	1768.382187	99.0%	98.6%	98.2%	97.9%	97.8%	97.6%	97.0%
Ovarian	OCT14C1	Plasma	Custom	620092	99788821	86.9%	2708.772533	99.1%	98.5%	98.2%	98.0%	97.8%	97.6%	97.0%
Ovarian	OCT15C1	Plasma	Custom	620092	82114578	86.6%	2180.042398	99.5%	99.0%	98.7%	98.5%	98.4%	98.2%	97.7%
Ovarian	OCT17C1	Plasma	Custom	620092	133324383	77.7%	1287.457151	99.2%	98.6%	98.3%	98.0%	97.8%	97.6%	96.9%
Ovarian	OCT18C1	Plasma	Custom	620092	102873332	82.8%	1864.300259	99.1%	98.5%	98.2%	98.0%	97.8%	97.6%	96.9%
Ovarian	OCT19C1	Plasma	Custom	620092	77020320	88.6%	1977.930341	98.7%	98.0%	97.6%	97.2%	97.0%	96.7%	95.8%
Ovarian	OCT20C1	Plasma	Custom	620092	70447486	87.3%	1920.044766	98.7%	98.1%	97.6%	97.3%	97.1%	96.9%	95.9%
Ovarian	OCT21C2	Plasma	Custom	620092	54588530	79.4%	1299.938098	98.6%	97.9%	97.5%	97.2%	96.9%	96.7%	95.7%
Ovarian	OCT1T1	Tumor	Custom	620092	69287237	48.7%	774.25208	98.7%	97.7%	97.3%	97.0%	96.8%	96.4%	94.9%
Ovarian	OCT1T2	Tumor	Custom	620092	35006822	83.7%	500.112222	97.9%	96.9%	95.9%	95.2%	94.6%	94.2%	92.8%
Ovarian	OCT2T1	Tumor	Custom	620092	37649362	87.8%	746.171412	98.3%	97.5%	97.1%	96.6%	96.2%	95.7%	94.0%
Ovarian	OCT2T2	Tumor	Custom	620092	79785419	57.9%	1890.031999	99.1%	98.1%	97.8%	97.6%	97.4%	97.3%	96.7%
Ovarian	OCT3T	Tumor	Custom	620092	79595977	61.8%	1418.294037	98.8%	98.0%	97.7%	97.5%	97.3%	97.2%	96.4%
Ovarian	OCT5T1	Tumor	Custom	620092	74775501	89.9%	1478.342306	98.9%	98.2%	97.8%	97.6%	97.4%	97.2%	96.5%
Ovarian	OCT5T2	Tumor	Custom	620092	58769793	69.3%	1266.209162	99.0%	98.3%	98.0%	97.7%	97.5%	97.4%	96.8%
Ovarian	OCT5T3	Tumor	Custom	620092	53340003	86.8%	675.859583	98.7%	97.8%	97.4%	97.1%	96.8%	96.5%	94.4%
Ovarian	OCT5T4	Tumor	Custom	620092	55957331	71.5%	1408.031116	99.1%	98.3%	97.9%	97.7%	97.5%	97.3%	96.8%
Ovarian	OCT6T	Tumor	Custom	620092	50085679	44.9%	686.483123	99.2%	98.2%	97.7%	97.4%	97.2%	97.0%	95.7%
Ovarian	OCT7T	Tumor	Custom	620092	62404539	78.5%	525.920338	97.9%	97.0%	96.0%	95.3%	94.8%	94.4%	93.2%
Ovarian	OCT8T	Tumor	Custom	620092	55257013	34.5%	271.892789	97.9%	95.9%	94.7%	93.9%	93.4%	93.0%	88.9%
Ovarian	OCT9T	Tumor	Custom	620092	84386905	63.9%	1631.69363	99.0%	98.2%	97.9%	97.7%	97.5%	97.4%	96.8%
Ovarian	OCT10T	Tumor	Custom	620092	64548162	74.9%	1700.33665	99.1%	98.6%	98.3%	98.1%	97.9%	97.8%	97.3%
Ovarian	OCT11T	Tumor	Custom	620092	59502132	43.4%	611.533615	98.9%	97.4%	96.8%	96.3%	95.9%	95.5%	94.2%
Ovarian	OCT12T	Tumor	Custom	620092	38286215	77.2%	514.978927	97.9%	96.2%	95.3%	94.7%	94.3%	93.9%	92.2%
Ovarian	OCT13T	Tumor	Custom	620092	41299288	79.9%	490.268483	98.2%	96.8%	96.0%	95.5%	95.0%	94.6%	93.5%
Ovarian	OCT14T1	Tumor	Custom	620092	56487847	87.9%	943.914132	98.8%	98.1%	97.7%	97.4%	97.2%	97.0%	96.0%
Ovarian	OCT14T2	Tumor	Custom	620092	51307251	86.5%	805.893894	98.7%	97.9%	97.6%	97.3%	97.1%	96.9%	95.7%
Ovarian	OCT14T3	Tumor	Custom	620092	44592904	88.9%	804.862409	98.7%	97.9%	97.6%	97.3%	97.1%	96.8%	95.5%
Ovarian	OCT15T1	Tumor	Custom	620092	47547511	90.6%	1287.225973	98.9%	98.4%	98.0%	97.8%	97.6%	97.4%	96.8%
Ovarian	OCT15T2	Tumor	Custom	620092	54499240	89.8%	1273.195594	98.9%	98.3%	97.9%	97.7%	97.5%	97.3%	96.6%
Ovarian	OCT15T3	Tumor	Custom	620092	66547843	88.7%	1305.360147	99.0%	98.4%	98.0%	97.8%	97.6%	97.5%	96.9%
Ovarian	OCT17T	Tumor	Custom	620092	60617155	84.1%	823.14777	98.7%	97.7%	97.2%	96.8%	96.5%	96.0%	94.6%
Ovarian	OCT18T1	Tumor	Custom	620092	24884810	68.3%	442.429478	98.3%	97.2%	96.6%	96.1%	95.7%	95.3%	94.0%
Ovarian	OCT18T2	Tumor	Custom	620092	21845212	74.2%	421.751095	98.2%	96.9%	96.1%	95.5%	95.1%	94.7%	93.4%
Ovarian	OCT18T3	Tumor	Custom	620092	20175762	72.7%	390.502151	98.1%	96.7%	95.9%	95.4%	94.9%	94.6%	93.1%
Ovarian	OCT19T1	Tumor	Custom	620092	24066671	88.1%	802.849286	98.1%	97.2%	96.6%	95.9%	95.3%	94.9%	93.3%
Ovarian	OCT19T2	Tumor	Custom	620092	29484674	89.3%	908.281471	98.1%	97.3%	96.7%	96.0%	95.5%	95.0%	93.6%
Ovarian	OCT20T1	Tumor	Custom	620092	29119475	90.4%	1313.911044	98.8%	98.1%	97.7%	97.5%	97.3%	97.1%	96.2%
Ovarian	OCT20T2	Tumor	Custom	620092	25960895	89.3%	996.953614	98.4%	97.7%	97.2%	96.9%	96.5%	96.2%	94.7%
Ovarian	OCT21T1	Tumor	Custom	620092	43328877	83.7%	2327.537811	98.9%	98.2%	97.9%	97.8%	97.6%	97.5%	97.0%
Ovarian	OCT21T2	Tumor	Custom	620092	23454927	84.1%	1221.200361	98.7%	98.0%	97.6%	97.4%	97.2%	97.0%	96.1%
Breast	L031_P1	Plasma	Custom	620092	115186797	63.3%	1251.070063	99.7%	99.4%	99.0%	98.4%	97.7%	97.0%	93.6%
Breast	L031_P2	Plasma	Custom	620092	126672001	70.4%	1752.586784	99.7%	99.7%	99.4%	99.2%	99.1%	98.9%	98.4%
Breast	L031_N	Normal	Custom	620092	53942506	65.6%	557.484544	99.4%	98.8%	98.3%	98.0%	97.7%	97.5%	96.4%
Breast	1159_P1	Plasma	Custom	620092	86626571	67.8%	1163.328235	99.6%	99.3%	98.9%	98.7%	98.5%	98.3%	97.3%
Breast	1159_P2	Plasma	Custom	620092	101101213	69.2%	1407.454809	99.6%	99.2%	98.7%	98.5%	98.3%	98.1%	97.1%
Breast	1159_N	Normal	Custom	620092	45697161	64.5%	457.262008	99.2%	98.6%	98.1%	97.7%	97.4%	97.2%	95.5%
Breast	L046_P	Plasma	Custom	620092	124640804	73.1%	2354.371277	99.6%	99.1%	98.8%	98.6%	98.4%	98.3%	97.8%
Breast	L046_N	Normal	Custom	620092	42874070	68.1%	537.453286	99.3%	98.7%	98.3%	97.9%	97.7%	97.5%	96.3%
Breast	1109_P1	Plasma	Custom	620092	119218085	71.5%	1844.312575	99.7%	99.5%	99.2%	99.0%	98.8%	98.7%	98.2%
Breast	1109_P2	Plasma	Custom	620092	169741050	72.0%	3152.671969	99.4%	98.7%	98.3%	98.1%	97.9%	97.7%	97.1%
Breast	1109_N	Normal	Custom	620092	45526767	66.8%	512.06597	99.3%	98.7%	98.2%	97.9%	97.6%	97.3%	95.9%
Breast	1211_P	Plasma	Custom	620092	117048694	68.2%	1539.803732	99.6%	99.3%	99.0%	98.8%	98.6%	98.5%	97.8%
Breast	1211_N	Normal	Custom	620092	32370262	75.8%	629.745644	99.1%	98.7%	98.2%	97.9%	97.6%	97.4%	96.2%
Breast	L031_P1	Plasma	MSK-IMPACT	1212149	51026700	65.3%	707.305622	99.3%	98.1%	96.8%	95.9%	95.2%	94.5%	92.1%
Breast	L031_P2	Plasma	MSK-IMPACT	1212149	38813308	67.8%	626.895924	99.3%	99.1%	99.0%	98.9%	98.7%	98.5%	97.9%
Breast	L031_N	Normal	MSK-IMPACT	1212149	26391108	63.5%	315.868136	99.3%	99.0%	98.8%	98.6%	98.4%	98.2%	97.0%
Breast	1109_P1	Plasma	MSK-IMPACT	1212149	38945182	67.9%	647.453952	99.4%	99.1%	98.9%	98.8%	98.6%	98.5%	97.7%
Breast	1109_P2	Plasma	MSK-IMPACT	1212149	62504980	67.2%	1030.357899	99.2%	98.9%	98.7%	98.6%	98.4%	98.3%	97.8%
Breast	1109_N	Normal	MSK-IMPACT	1212149	24741314	63.6%	295.326192	99.3%	99.0%	98.8%	98.5%	98.3%	98.0%	96.5%

Non-synonymous somatic mutations

Sample ID	Chromosome	Position	Reference	Alternate	Gene	AA	Effect	Tumor VAF	Normal VAF (for tumors)	Tumor Depth	Normal Depth	Pathogenicity	Mutation Taster	CHASM (Ovary)	PROVEAN	FATHMM	Cancer Gene Census	Kandoth	Lawrence	Haploinsufficient	LOH	Cancer Cell Fraction (CCF)	Probability mutation being clonal	Lower bound of 95% confidence interval for CCF	Upper bound of 95% confidence interval for CCF	Clonal/Subclonal	Target panel
OCT11C1	11	92086995	G	A	FAT3	p.Asp573Asn	missense_variant	4.39%		958	874	Passenger	D	Passenger	.	PASSENGER/OTHER											Custom
OCT11C1	13	52548670	C	T	ATP7B	p.Ser229Asn	missense_variant	2.61%		959	891	Passenger	N	Passenger	.	PASSENGER/OTHER					TRUE						Custom
OCT11C1	17	7577105	G	C	TP53	p.Pro278Arg	missense_variant	10.30%		923	856	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	.						Custom
OCT11T	11	92086995	G	A	FAT3	p.Asp573Asn	missense_variant	20.20%	0.11%	782	886	Passenger	D	Passenger	.	PASSENGER/OTHER						86%	0.14938	0.751435076	0.957366654	Subclonal	Custom
OCT11T	17	7577105	G	C	TP53	p.Pro278Arg	missense_variant	94.45%	0.00%	686	861	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.79943	0.990204244	1	Clonal	Custom
OCT11T1	17	2955980	C	T	NF1	p.His1143Tyr	missense_variant	44.93%	0.00%	503	851	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	88%	0.2159	0.79467021	0.962878646	Subclonal	Custom
OCT2C2	8	48843275	G	T	PRKDC	p.Pro617Thr	missense_variant	9.70%		959	844	Passenger	D	Passenger	.	PASSENGER/OTHER					TRUE						Custom
OCT2T1	8	48843275	G	T	PRKDC	p.Pro617Thr	missense_variant	11.99%	0.00%	759	841	Passenger	D	Passenger	.	PASSENGER/OTHER					.	93%	0.75751	0.775515327	1	Clonal	Custom
OCT2T2	8	48843275	G	T	PRKDC	p.Pro617Thr	missense_variant	12.22%	0.12%	925	848	Passenger	D	Passenger	.	PASSENGER/OTHER					.	100%	0.94268	0.926422896	1	Clonal	Custom
OCT3T	17	7578203	C	T	TP53	p.Val216Met	missense_variant	53.78%	0.12%	662	826	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	99%	0.9418	0.906109272	1	Clonal	Custom
OCT6C2	8	117864920	C	A	RAD21	p.Val397Leu	missense_variant	10.27%		487	659	Passenger	D	Passenger	.	PASSENGER/OTHER	TRUE	TRUE	TRUE								Custom
OCT6T	16	14041630	G	A	ERCC4	p.Arg726His	missense_variant	57.38%	0.23%	428	861	Passenger	D	Passenger	.	PASSENGER/OTHER	TRUE					95%	0.7997	0.861188518	1	Clonal	Custom
OCT6T	17	7578461	C	A	TP53	p.Val157Phe	missense_variant	76.82%	0.00%	838	843	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.86565	0.990248234	1	Clonal	Custom
OCT6T	8	114186119	G	C	CSMD3	p.Pro181Ala	missense_variant	13.90%	0.00%	785	843	Passenger	D	Passenger	.	PASSENGER/OTHER						65%	0	0.552528297	0.7441041	Subclonal	Custom
OCT9T	1	15844611	C	A	CASP9	p.Asp138Tyr	missense_variant	49.72%	0.00%	891	687	Passenger	N	Passenger	.	PASSENGER/OTHER						100%	0	0.99023552	1	Clonal	Custom
OCT9T	4	89052311	C	G	ABCG2	p.Ala145Pro	missense_variant	27.91%	0.00%	867	781	Passenger	D	Passenger	.	PASSENGER/OTHER						100%	0.95797	0.920643336	1	Clonal	Custom
OCT10T	17	7574012	C	A	TP53	p.Glu339*	stop_gained	33.24%	0.11%	680	892	Likely_Pathogenic	A	Driver	.		TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.95887	0.898289665	1	Clonal	Custom
OCT12T	13	48947579	T	A	RB1	p.Leu389*	stop_gained	72.64%	0.00%	201	861	Likely_Pathogenic	A	Driver	.		TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.97165	0.925410774	1	Clonal	Custom
OCT12T	17	7578442	T	C	TP53	p.Tyr163Cys	missense_variant	75.26%	0.00%	490	906	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.24903	0.973401791	1	Clonal	Custom
OCT12T	22	29091840	T	C	CHEK2	p.Lys416Glu	missense_variant	6.02%	0.95%	251	839	Passenger	D	Passenger	.	PASSENGER/OTHER	TRUE	TRUE			TRUE	8%	0	0.042376805	0.121763544	Subclonal	Custom
OCT13T	16	14041575	C	G	ERCC4	p.Pro708Ala	missense_variant	34.24%	0.00%	259	906	Passenger	D	Passenger	.	PASSENGER/OTHER	TRUE					97%	0.89454	0.806347289	1	Clonal	Custom
OCT13T	17	7577120	C	A	TP53	p.Arg273Leu	missense_variant	52.04%	0.00%	221	882	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0	0.95071197	1	Clonal	Custom
OCT14T1	16	16196501	G	A	ABCC1	p.Gly888Ser	missense_variant	20.16%	0.11%	774	677	Passenger	N	Passenger	.	PASSENGER/OTHER						68%	0	0.601868695	0.764615443	Subclonal	Custom
OCT14T1	17	29556079	C	T	NF1	p.Arg816*	stop_gained	53.70%	0.00%	270	756	Likely_Pathogenic	A	Driver	.		TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.05592	0.946240189	1	Clonal	Custom
OCT14T2	16	16196501	G	A	ABCC1	p.Gly888Ser	missense_variant	24.11%	0.11%	730	892	Passenger	N	Passenger	.	PASSENGER/OTHER						60%	0	0.528416537	0.676117952	Subclonal	Custom
OCT14T2	17	29556079	C	T	NF1	p.Arg816*	stop_gained	66.23%	0.00%	228	756	Likely_Pathogenic	A	Driver	.		TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.96591	0.925571739	1	Clonal	Custom
OCT14T3	16	16196501	G	A	ABCC1	p.Gly888Ser	missense_variant	24.51%	0.11%	616	885	Passenger	N	Passenger	.	PASSENGER/OTHER						71%	0	0.609853415	0.800667932	Subclonal	Custom
OCT14T3	17	29556079	C	T	NF1	p.Arg816*	stop_gained	62.30%	0.00%	245	756	Likely_Pathogenic	A	Driver	.		TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.06998	0.951310661	1	Clonal	Custom
OCT15T1	8	48733366	G	A	PRKDC	p.Gln3083*	stop_gained	14.25%	0.00%	856	871	Passenger	A	Driver	.							71%	1.00E-05	0.607631192	0.810472974	Subclonal	Custom
OCT15T2	8	48733366	G	A	PRKDC	p.Gln3083*	stop_gained	15.04%	0.00%	851	869	Passenger	A	Driver	.							39%	0	0.337572472	0.439338469	Subclonal	Custom
OCT15T3	8	48733366	G	A	PRKDC	p.Gln3083*	stop_gained	15.74%	0.00%	846	882	Passenger	A	Driver	.							100%	0.91008	0.863964119	1	Clonal	Custom
OCT17C	17	7578370	C	A	TP53	X187_splice	splice_donor_variant	1.36%		863	.	Likely_Pathogenic	D	.	.	.	TRUE	TRUE	TRUE	TRUE	.						Custom
OCT17T	17	7578370	C	A	TP53	X187_splice	splice_donor_variant	21.81%	0.00%	454	884	Likely_Pathogenic	D	.	.	.	TRUE	TRUE	TRUE	TRUE	.	100%	0.914855301	0.8277196	1	Clonal	Custom
OCT18T1	15	22743203	G	A	GOLGA6L22	p.Glu518Lys	missense_variant	4.03%	0.23%	422	886	Likely_Pathogenic	N	Driver	.						TRUE	12%	0	0.070380999	0.179724366	Subclonal	Custom
OCT18T1	17	7577539	G	A	TP53	p.Arg248Trp	missense_variant	75.46%	0.22%	436	912	Likely_Pathogenic	A	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0	0.986108113	1	Clonal	Custom
OCT18T2	17	7577539	G	A	TP53	p.Arg248Trp	missense_variant	80.10%	0.22%	382	915	Likely_Pathogenic	A	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.91251	0.983637983	1	Clonal	Custom
OCT18T3	17	7577539	G	A	TP53	p.Arg248Trp	missense_variant	77.90%	0.22%	371	915	Likely_Pathogenic	A	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.59933	0.983689184	1	Clonal	Custom
OCT18T3	22	29091840	T	C	CHEK2	p.Lys416Glu	missense_variant	8.42%	1.67%	202	838	Passenger	D	Passenger	.	PASSENGER/OTHER	TRUE	TRUE				31%	0	0.20567622	0.441014895	Subclonal	Custom
OCT18C1	17	7577539	G	A	TP53	p.Arg248Trp	missense_variant	5.32%		902	918	Likely_Pathogenic	A	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	.						Custom
OCT5T1	17	7577570	C	T	TP53	p.Met237Ile	missense_variant	86.36%	0.00%	706	909	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0	0.99021317	1	Clonal	Custom
OCT5T1	3	142177805	T	G	ATR	p.Asn2500His	missense_variant	20.40%	0.00%	892	902	Likely_Pathogenic	D	Passenger	.	CANCER	.	TRUE	.	TRUE	.	100%	0.94585	0.911466427	1	Clonal	Custom
OCT5T2	17	7577570	C	T	TP53	p.Met237Ile	missense_variant	82.84%	0.00%	804	917	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.1328	0.990223964	1	Clonal	Custom
OCT5T2	3	142177805	T	G	ATR	p.Asn2500His	missense_variant	17.64%	0.00%	892	882	Likely_Pathogenic	D	Passenger	.	CANCER	.	TRUE	.	TRUE	.	100%	0.93971	0.895896586	1	Clonal	Custom
OCT5T3	11	92533962	G	T	FAT3	p.Asp2595Tyr	missense_variant	8.21%	0.00%	588	929	Passenger	D	Passenger	.	CANCER	.	.	.	.	.	24%	0	0.175192822	0.303825813	Subclonal	Custom
OCT5T3	17	7577570	C	T	TP53	p.Met237Ile	missense_variant	65.88%	0.00%	340	920	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	1.00E-05	0.966950869	1	Clonal	Custom
OCT5T3	3	142177805	T	G	ATR	p.Asn2500His	missense_variant	19.58%	0.00%	720	904	Likely_Pathogenic	D	Passenger	.	CANCER	.	TRUE	.	TRUE	.	94%	0.76411	0.79897713	1	Clonal	Custom
OCT5T4	17	7577570	C	T	TP53	p.Met237Ile	missense_variant	62.87%	0.00%	852	903	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.35688	0.990137871	1	Clonal	Custom
OCT5T4	3	142177805	T	G	ATR	p.Asn2500His	missense_variant	13.68%	0.00%	892	901	Likely_Pathogenic	D	Passenger	.	CANCER	.	TRUE	.	TRUE	.	79%	0.00583	0.692691439	0.898144172	Subclonal	Custom
OCT7T	17	7578412	A	T	TP53	p.Val173Glu	missense_variant	89.32%	0.00%	459	905	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.3573	0.990111035	1	Clonal	Custom
OCT8T	17	41244936	G	A	BRCA1	p.Pro871Leu	missense_variant	4.89%	0.11%	184	929	Passenger	P	Passenger	.	PASSENGER/OTHER	TRUE	TRUE	TRUE	TRUE	.	10%	0	0.051001411	0.177500758	Subclonal	Custom
OCT8T	5	38944635	C	T	RICTOR	p.Arg1633His	missense_variant	4.20%	0.45%	143	898	Passenger	D	Passenger	.	PASSENGER/OTHER	.	.	.	.	.	12%	0	0.049422673	0.239376964	Subclonal	Custom
OCT8T	8	113988234	C	T	CSMD3	p.Glu392Lys	missense_variant	16.24%	0.11%	197	912	Passenger	D	Passenger	.	PASSENGER/OTHER	.	.	.	.	.	35%	0	0.250997154	0.46286225	Subclonal	Custom
OCT19T1	17	7577129	A	C	TP53	p.Phe270Cys	missense_variant	81.75%	0.00%	274	925	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.16644	0.980750614	1	Clonal	Custom
OCT19T2	17	7577129	A	C	TP53	p.Phe270Cys	missense_variant	71.77%	0.00%	373	911	Likely_Pathogenic	D	Passenger	.	CANCER	TRUE	TRUE	TRUE	TRUE	TRUE	100%	0.01492	0.969505843	1	Clonal	Custom
OCT20T2	8	114449056	G	A	CSMD3	p.Arg10*	stop_gained	15.40%	0.00%	871	882	Passenger	A	Driver	.							57%	0	0.492340118	0.655020