

Patient ID	Patient	ctDNA Assay	Report	Gene (Bold = <i>ESR1</i> activating mutation; Italics = VUS)	Variant	Mutation Type
MGH1_1	1	Guardant360	1	TP53	D281G	Missense
MGH1_2	1	Guardant360	2	TP53	D281G	Missense
MGH1_2	1	Guardant360	2	TP53	R158H	Missense
MGH1_2	1	Guardant360	2	ESR1	Y537C	Missense
MGH1_2	1	Guardant360	2	ESR1	Y537D	Missense
MGH1_2	1	Guardant360	2	ESR1	S463P	Missense
MGH1_2	1	Guardant360	2	ESR1	F461V	Missense
MGH1_2	1	Guardant360	2	ESR1	L536R	Missense
MGH1_2	1	Guardant360	2	<i>ESR1</i>	<i>H524L</i>	Missense
MGH1_2	1	Guardant360	2	<i>ESR1</i>	<i>P535H</i>	Missense
MGH1_2	1	Guardant360	2	ESR1	Y537N	Missense
MGH1_2	1	Guardant360	2	<i>ESR1</i>	<i>M357V</i>	Missense
MGH1_2	1	Guardant360	2	ESR1	D538G	Missense
MGH1_2	1	Guardant360	2	<i>ESR1</i>	<i>Q580L</i>	Missense
MGH1_2	1	Guardant360	2	<i>ESR1</i>	<i>S329_E330ins</i>	InDel
MGH1_3	1	Guardant360	3	TP53	D281G	Missense
MGH1_3	1	Guardant360	3	GNAS	G49A	Missense
MGH1_4	1	Guardant360	4	ESR1	Y537C	Missense
MGH1_4	1	Guardant360	4	ESR1	Y537N	Missense
MGH1_4	1	Guardant360	4	TP53	D281G	Missense
MGH1_4	1	Guardant360	4	TP53	R248Q	Missense
MGH1_4	1	Guardant360	4	GNAS	G49A	Missense
MGH1_5	1	Guardant360	5	ESR1	Y537C	Missense
MGH1_5	1	Guardant360	5	ESR1	Y537N	Missense
MGH1_5	1	Guardant360	5	ESR1	E380Q	Missense
MGH1_5	1	Guardant360	5	ESR1	L536R	Missense
MGH1_5	1	Guardant360	5	ESR1	IMPG1 fusion	Fusion
MGH1_5	1	Guardant360	5	TP53	D281G	Missense
MGH1_5	1	Guardant360	5	TP53	N239D	Missense
MGH1_5	1	Guardant360	5	TP53	R282G	Missense
MGH1_5	1	Guardant360	5	FGFR2	Rearr	Fusion
MGH1_5	1	Guardant360	5	GNAS	G49A	Missense
MGH1_5	1	Guardant360	5	ASXL1	<i>E790fs</i>	Frameshift
MGH1_5	1	Guardant360	5	CDK4	<i>M197I</i>	Missense
MGH1_5	1	Guardant360	5	CHD4	<i>G808V</i>	Missense
MGH1_5	1	Guardant360	5	DNMT3A	<i>K459fs</i>	Nonsense
MGH1_5	1	Guardant360	5	FAT1	P2209P	Synonymous
MGH1_5	1	Guardant360	5	FGFR2	Rearr	Fusion
MGH1_5	1	Guardant360	5	GRIN2A	<i>R1067W</i>	Missense
MGH1_5	1	Guardant360	5	KMT2C	<i>Q2385*</i>	Nonsense

MGH1_5	1	Guardant3605		MARK2	395I	Missense
MGH1_5	1	Guardant3605		NUMA1	E843E	Synonymous
MGH1_5	1	Guardant3605		PAX8	R33C	Missense
MGH1_5	1	Guardant3605		PCDH15	D540G	Missense
MGH1_5	1	Guardant3605		PSMB10	V198I	Missense
MGH1_5	1	Guardant3605		RBM10	R766C	Missense
MGH1_5	1	Guardant3605		SLC34A2	I1512I	Synonymous
MGH2_1	2	Guardant3601		BRAF	V600E	Missense
MGH2_1	2	Guardant3601		ESR1	Y537N	Missense
MGH2_1	2	Guardant3601		FGFR1	Amp	Amplification
MGH2_2	2	Guardant3602		BRAF	V600E	Missense
MGH2_2	2	Guardant3602		ESR1	Y537N	Missense
MGH2_2	2	Guardant3602		ESR1	Y537S	Missense
MGH2_2	2	Guardant3602		ESR1	Y537C	Missense
MGH2_2	2	Guardant3602	2	ATM	Copy Number Loss	Copy Number Loss
MGH2_2	2	Guardant3602		ESR1	V422del	InDel
MGH2_2	2	Guardant3602		KRAS	G12V	Missense
MGH2_2	2	Guardant3602		CCND1	Amp	Amplification
MGH2_2	2	Guardant3602		FGFR1	K656E	Missense
MGH2_2	2	Guardant3602		FGFR1	Amp	Amplification
MGH2_2	2	Guardant3602		EGFR	Amp	Amplification
MGH2_2	2	Guardant3602		CDK6	S321S	Synonymous
MGH2_2	2	Guardant3602		BRCA1	*1864*	Nonsense
MGH2_2	2	Guardant3602		ESR1	L379I	Missense
MGH2_2	2	Guardant3602		ESR1	F404L	Missense
MGH2_2	2	Guardant3602		ESR1	M343V	Missense
MGH2_2	2	Guardant3602		ESR1	M357I	Missense
MGH2_2	2	Guardant3602		ESR1	M421T	Missense
MGH2_2	2	Guardant3602		ESR1	F404I	Missense
MGH2_2	2	Guardant3602		NF1	T676P	Missense
MGH2_3	2	Guardant3603		BRAF	V600E	Missense
MGH2_3	2	Guardant3603		ESR1	Y537N	Missense
MGH2_3	2	Guardant3603		ESR1	Y537S	Missense
MGH2_3	2	Guardant3603		KRAS	G12V	Missense
MGH2_3	2	Guardant3603		CCND1	Amp	Amplification
MGH2_3	2	Guardant3603		FGFR1	Amp	Amplification
MGH2_3	2	Guardant3603		CDK6	S321S	Synonymous
MGH2_3	2	Guardant3603		ESR1	L379I	Missense
MGH2_3	2	Guardant3603		ESR1	M421T	Missense
MGH2_4	2	Guardant3604		BRAF	V600E	Missense
MGH2_4	2	Guardant3604		ESR1	Y537N	Missense
MGH2_4	2	Guardant3604		ESR1	Y537S	Missense
MGH2_4	2	Guardant3604		ESR1	G415E	Missense

MGH2_4	2	Guardant360	4	ESR1	Y537C	Missense
MGH2_4	2	Guardant360	4	<i>ESR1</i>	<i>G420D</i>	Missense
MGH2_4	2	Guardant360	4	<i>ESR1</i>	<i>M421T</i>	Missense
MGH2_4	2	Guardant360	4	<i>ESR1</i>	<i>G415V</i>	Missense
MGH2_4	2	Guardant360	4	<i>ESR1</i>	<i>V376A</i>	Missense
MGH2_4	2	Guardant360	4	<i>ESR1</i>	<i>L391I</i>	Missense
MGH2_4	2	Guardant360	4	<i>ESR1</i>	<i>V418A</i>	Missense
MGH2_4	2	Guardant360	4	ATM	Copy Number Loss	Copy Number Loss
MGH2_4	2	Guardant360	4	ESR1	V422del	InDel
MGH2_4	2	Guardant360	4	NFE2L2	E82D	Missense
MGH2_4	2	Guardant360	4	CCND1	Amp	Amplification
MGH2_4	2	Guardant360	4	FGFR1	Amp	Amplification
MGH2_4	2	Guardant360	4	<i>MET</i>	<i>T715I</i>	Missense
MGH2_4	2	Guardant360	4	<i>RB1</i>	<i>L779S</i>	Missense
Mof1_1	3	Guardant360	1	PIK3CA	H1047R	Missense
Mof1_1	3	Guardant360	1	PIK3CA	E726K	Missense
Mof1_1	3	Guardant360	1	PIK3CA	R93Q	Missense
Mof1_1	3	Guardant360	1	ESR1	E380Q	Missense
Mof1_1	3	Guardant360	1	ESR1	D538G	Missense
Mof1_1	3	Guardant360	1	ESR1	Y537C	Missense
Mof1_1	3	Guardant360	1	ESR1	Y537D	Missense
Mof1_1	3	Guardant360	1	ESR1	Y537N	Missense
Mof1_1	3	Guardant360	1	ESR1	Y537H	Missense
Mof1_1	3	Guardant360	1	PTEN	D162fs	Frameshift
Mof1_1	3	Guardant360	1	KRAS	G12V	Missense
Mof1_1	3	Guardant360	1	CCND1	Amp	Amplification
Mof1_1	3	Guardant360	1	FGFR1	N546K	Missense
Mof1_1	3	Guardant360	1	ARID1A	Q515*	Nonsense
Mof1_1	3	Guardant360	1	<i>KIT</i>	<i>P61fs</i>	Frameshift
Mof1_1	3	Guardant360	1	<i>MET</i>	<i>D1030N</i>	Missense
Mof1_1	3	Guardant360	1	RAF1	I551I	Synonymous
Mof1_1	3	Guardant360	1	<i>KIT</i>	<i>L160F</i>	Missense
Mof1_1	3	Guardant360	1	<i>NOTCH1</i>	<i>E1636K</i>	Missense
Mof1_1	3	Guardant360	1	<i>MET</i>	<i>D1041H</i>	Missense
Mof1_1	3	Guardant360	1	<i>FGFR2</i>	<i>H254Y</i>	Missense
Mof1_1	3	Guardant360	1	ESR1	L536R	Missense
Mof1_1	3	Guardant360	1	ESR1	L536P	Missense
Mof1_1	3	Guardant360	1	ESR1	L536F	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>H356D</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>H356N</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>H356Y</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>S329Y</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>D351N</i>	Missense

Mof1_1	3	Guardant360	1	ESR1	L536V	Missense
Mof1_1	3	Guardant360	1	ESR1	L327L	Synonymous
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>L391I</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>L541Q</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>S329F</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>M357I</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>E542D</i>	Missense
Mof1_1	3	Guardant360	1	ESR1	F404L	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>L327H</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>L379I</i>	Missense
Mof1_1	3	Guardant360	1	ESR1	L536L	Synonymous
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>L541P</i>	Missense
Mof1_1	3	Guardant360	1	ESR1	F404I	Missense
Mof1_1	3	Guardant360	1	ESR1	L296L	Synonymous
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>L391V</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>S578S</i>	Missense
Mof1_1	3	Guardant360	1	<i>ESR1</i>	<i>Y537*</i>	Nonsense
Mof2_1	4	Guardant360	1	ESR1	E380Q	Missense
Mof2_1	4	Guardant360	1	ESR1	D538G	Missense
Mof2_1	4	Guardant360	1	ESR1	Y537S	Missense
Mof2_1	4	Guardant360	1	ESR1	Y537N	Missense
Mof2_1	4	Guardant360	1	ESR1	V422del	InDel
Mof2_1	4	Guardant360	1	<i>ESR1</i>	<i>G415E</i>	Missense
Mof2_1	4	Guardant360	1	<i>ESR1</i>	<i>K416_C417delins</i>	InDel
Mof2_1	4	Guardant360	1	<i>ESR1</i>	<i>E423_I424delins</i>	InDel
Mof2_1	4	Guardant360	1	<i>ESR1</i>	<i>Q414_C417delins</i>	InDel
Mof2_1	4	Guardant360	1	<i>ESR1</i>	<i>P535_L540del</i>	InDel
Mof2_1	4	Guardant360	1	CCND1	Amp	Amplification
Mof2_1	4	Guardant360	1	CDK12	P335S	Missense
Mof2_1	4	Guardant360	1	TSC1	E493fs	Frameshift
WUSTL1_15	15	Guardant360	1	AKT1	L52R	Missense
WUSTL1_15	15	Guardant360	1	BRCA2	K102I	Missense
WUSTL1_25	25	Guardant360	2	ESR1	Y537S	Missense
WUSTL1_25	25	Guardant360	2	AKT1	L52R	Missense
WUSTL1_35	35	Guardant360	3	<i>ESR1</i>	<i>A350T</i>	Missense
WUSTL1_35	35	Guardant360	3	ESR1	E380Q	Missense
WUSTL1_35	35	Guardant360	3	ESR1	F404L	Missense
WUSTL1_35	35	Guardant360	3	<i>ESR1</i>	<i>L327R</i>	Missense
WUSTL1_35	35	Guardant360	3	<i>ESR1</i>	<i>L384V</i>	Missense
WUSTL1_35	35	Guardant360	3	<i>ESR1</i>	<i>L402V</i>	Missense
WUSTL1_35	35	Guardant360	3	<i>ESR1</i>	<i>M343L</i>	Missense
WUSTL1_35	35	Guardant360	3	<i>ESR1</i>	<i>M421T</i>	Missense
WUSTL1_35	35	Guardant360	3	<i>ESR1</i>	<i>N407H</i>	Missense
WUSTL1_35	35	Guardant360	3	<i>ESR1</i>	<i>N407S</i>	Missense
WUSTL1_35	35	Guardant360	3	<i>ESR1</i>	<i>N407T</i>	Missense

WUSTL1_35	Guardant3603	ESR1	P324S	Missense
WUSTL1_35	Guardant3603	ESR1	R394H	Missense
WUSTL1_35	Guardant3603	ESR1	T347I	Missense
WUSTL1_35	Guardant3603	ESR1	Y537S	Missense
WUSTL1_35	Guardant3603	AKT1	L52R	Missense
WUSTL1_45	Guardant3604	ESR1	Y537S	Missense
WUSTL1_45	Guardant3604	ESR1	E380Q	Missense
WUSTL1_45	Guardant3604	ESR1	G415E	Missense
WUSTL1_45	Guardant3604	ESR1	R394H	Missense
WUSTL1_45	Guardant3604	ESR1	T347I	Missense
WUSTL1_45	Guardant3604	ESR1	L402V	Missense
WUSTL1_45	Guardant3604	ESR1	L384V	Missense
WUSTL1_45	Guardant3604	ESR1	P324S	Missense
WUSTL1_45	Guardant3604	AKT1	L52R	Missense
WUSTL1_55	Guardant3605	ESR1	L327_Y328insG	InDel
WUSTL1_55	Guardant3605	ESR1	V51V	Synonymous
WUSTL1_55	Guardant3605	ESR1	Y537S	Missense
WUSTL1_55	Guardant3605	ESR1	E380Q	Missense
WUSTL1_55	Guardant3605	AKT1	L52R	Missense
WUSTL1_55	Guardant3605	BRAF	V600E	Missense
WUSTL2_16	Guardant3601	ESR1	Y537S	Missense
WUSTL2_16	Guardant3601	ESR1	D538G	Missense
WUSTL2_16	Guardant3601	ESR1	E542D	Missense
WUSTL2_16	Guardant3601	ESR1	E542K	Missense
WUSTL2_16	Guardant3601	ESR1	E523K	Missense
WUSTL2_16	Guardant3601	ESR1	K531K	Synonymous
WUSTL2_16	Guardant3601	ESR1	E542Q	Missense
WUSTL2_16	Guardant3601	ESR1	L541L	Synonymous
WUSTL2_16	Guardant3601	ESR1	*596*	InDel
WUSTL2_16	Guardant3601	ESR1	E542G	Missense
WUSTL2_16	Guardant3601	ESR1	L539P	Missense
WUSTL2_16	Guardant3601	ESR1	L462M	Missense
WUSTL2_16	Guardant3601	ESR1	V534A	Missense
WUSTL2_16	Guardant3601	FGFR1	Amp	Amplification
WUSTL2_16	Guardant3601	MYC	Amp	Amplification
WUSTL2_16	Guardant3601	APC	E1991K	Missense
WUSTL2_16	Guardant3601	APC	V2748I	Missense
WUSTL2_16	Guardant3601	FBXW7	R658*	Nonsense
WUSTL2_16	Guardant3601	NOTCH1	R2087Q	Missense
WUSTL2_26	Guardant3602	ESR1	H356Y	Missense
WUSTL2_26	Guardant3602	ESR1	E542K	Missense
WUSTL2_26	Guardant3602	ESR1	E542D	Missense
WUSTL2_26	Guardant3602	ESR1	H356D	Missense
WUSTL2_26	Guardant3602	ESR1	E542Q	Missense
WUSTL2_26	Guardant3602	ESR1	D351N	Missense

WUSTL2_26	Guardant3602	ESR1	K531K	Synonymous
WUSTL2_26	Guardant3602	ESR1	S573Y	Missense
WUSTL2_26	Guardant3602	ESR1	E523K	Missense
WUSTL2_26	Guardant3602	ESR1	L536L	Synonymous
WUSTL2_26	Guardant3602	ESR1	L541Q	Missense
WUSTL2_26	Guardant3602	ESR1	Q314Q	Synonymous
WUSTL2_26	Guardant3602	ESR1	*596*	InDel
WUSTL2_26	Guardant3602	ESR1	E523Q	Missense
WUSTL2_26	Guardant3602	ESR1	D351H	Missense
WUSTL2_26	Guardant3602	ESR1	E471E	Synonymous
WUSTL2_26	Guardant3602	ESR1	E589Q	Missense
WUSTL2_26	Guardant3602	ESR1	V534A	Missense
WUSTL2_26	Guardant3602	ESR1	E542G	Missense
WUSTL2_26	Guardant3602	ESR1	D538G	Missense
WUSTL2_26	Guardant3602	FGFR1	Amp	Amplification
WUSTL2_26	Guardant3602	APC	E1157D	Missense
WUSTL2_26	Guardant3602	APC	D1285H	Missense
WUSTL2_36	Guardant3603	ESR1	H356Y	Missense
WUSTL2_36	Guardant3603	ESR1	E542K	Missense
WUSTL2_36	Guardant3603	ESR1	E542D	Missense
WUSTL2_36	Guardant3603	ESR1	L536P	Missense
WUSTL2_36	Guardant3603	ESR1	H356D	Missense
WUSTL2_36	Guardant3603	ESR1	D351H	Missense
WUSTL2_36	Guardant3603	ESR1	D351N	Missense
WUSTL2_36	Guardant3603	ESR1	L539_L540ins	InDel
WUSTL2_36	Guardant3603	ESR1	Y537S	Missense
WUSTL2_36	Guardant3603	FGFR1	Amp	Amplification
WUSTL2_36	Guardant3603	PDGFRA	Y237Y	Synonymous
WUSTL2_36	Guardant3603	APC	D1285H	Missense
WUSTL2_36	Guardant3603	MTOR	R103Q	Missense
WUSTL2_36	Guardant3603	MTOR	R882T	Missense
WUSTL2_46	Guardant3604	ESR1	D351N	Missense
WUSTL2_46	Guardant3604	ESR1	E380Q	Missense
WUSTL2_46	Guardant3604	ESR1	E471E	Synonymous
WUSTL2_46	Guardant3604	ESR1	E523Q	Missense
WUSTL2_46	Guardant3604	ESR1	E542D	Missense
WUSTL2_46	Guardant3604	ESR1	E542K	Missense
WUSTL2_46	Guardant3604	ESR1	E542Q	Missense
WUSTL2_46	Guardant3604	ESR1	E589Q	Missense
WUSTL2_46	Guardant3604	ESR1	H356Y	Missense
WUSTL2_46	Guardant3604	FGFR1	Amp	Amplification
WUSTL2_46	Guardant3604	PDGFRA	Y273Y	Synonymous
WUSTL2_46	Guardant3604	PDGFRA	M1331	Missense
WUSTL2_46	Guardant3604	PTEN	D153N	Missense
WUSTL2_46	Guardant3604	RAF1	V60L	Missense

WUSTL2_46	Guardant3604		APC	D1285H	Missense
WUSTL2_46	Guardant3604		APC	E1157D	Missense
WUSTL2_46	Guardant3604		AR	S207N	Missense
WUSTL2_46	Guardant3604		EGFR	G901R	Missense
WUSTL2_46	Guardant3604		MYC	E137D	Missense
WUSTL2_46	Guardant3604		MYC	D41N	Missense
WUSTL2_46	Guardant3604		NOTCH1	E198K	Missense
WUSTL3_17	Tempus xF	1	PIK3CA	E545K	Missense
WUSTL3_17	Tempus xF	1	TP53	E271K	Missense
WUSTL3_17	Tempus xF	1	SPEN	D2430fs	Frameshift
WUSTL3_17	Tempus xF	1	CCND1	Copy Number Gain	Copy Number Gain
WUSTL3_17	Tempus xF	1	FGF3	Copy Number Gain	Copy Number Gain
WUSTL3_17	Tempus xF	1	FGF4	Copy Number Gain	Copy Number Gain
WUSTL3_27	Guardant3602		ESR1	L391V	Missense
WUSTL3_27	Guardant3602		ESR1	R503Q	Missense
WUSTL3_27	Guardant3602		PIK3CA	E545K	Missense
WUSTL3_27	Guardant3602		TP53	E271K	Missense
WUSTL3_27	Guardant3602		TP53	Q192*	Nonsense
WUSTL3_27	Guardant3602		MSH6	S1246fs	Frameshift
WUSTL3_27	Guardant3602		MYC	D433G	Missense
WUSTL3_27	Guardant3602		FGFR3	V306I	Missense
WUSTL3_27	Guardant3602		ALK	R291H	Missense
WUSTL3_27	Guardant3602		PDGFRA	T1052M	Missense
WUSTL3_27	Guardant3602		FANCA	T826M	Missense
WUSTL3_27	Guardant3602		TP53	R267R	Synonymous
WUSTL3_27	Guardant3602		MET	L1205L	Synonymous
WUSTL3_27	Guardant3602		CDH1	L791L	Synonymous
WUSTL3_27	Guardant3602		NOTCH1	L2176L	Synonymous
WUSTL3_37	Guardant3603		ESR1	E380Q	Missense
WUSTL3_37	Guardant3603		ESR1	H356Y	Missense
WUSTL3_37	Guardant3603		ESR1	L536F	Missense
WUSTL3_37	Guardant3603		ESR1	D351N	Missense
WUSTL3_37	Guardant3603		ESR1	H356D	Missense
WUSTL3_37	Guardant3603		ESR1	M357I	Missense
WUSTL3_37	Guardant3603		ESR1	L379I	Missense
WUSTL3_37	Guardant3603		ESR1	G415E	Missense
WUSTL3_37	Guardant3603		ESR1	R503Q	Missense
WUSTL3_37	Guardant3603		ESR1	E542D	Missense
WUSTL3_37	Guardant3603		ESR1	L391V	Missense

WUSTL3_37	Guardant3603	ESR1	M357I	Missense
WUSTL3_37	Guardant3603	RB1	S576*	Nonsense
WUSTL3_37	Guardant3603	RB1	Q93*	Nonsense
WUSTL3_37	Guardant3603	RB1	S567L	Nonsense
WUSTL3_37	Guardant3603	RB1	R251*	Nonsense
WUSTL3_37	Guardant3603	RB1	R556*	Nonsense
WUSTL3_37	Guardant3603	RB1	S634*	Missense
WUSTL3_37	Guardant3603	RB1	E440*	Nonsense
WUSTL3_37	Guardant3603	RB1	R445*	Nonsense
WUSTL3_37	Guardant3603	RB1	E864*	Nonsense
WUSTL3_37	Guardant3603	RB1	Splice Site SNV	SNV
WUSTL3_37	Guardant3603	RB1	Splice Site Indel	InDel
WUSTL3_37	Guardant3603	RB1	T766fs	Frameshift
WUSTL3_37	Guardant3603	RB1	L642fs	Frameshift
WUSTL3_37	Guardant3603	RB1	Biallelic Loss	Biallelic Loss
WUSTL3_37	Guardant3603	PIK3CA	E545K	Missense
WUSTL3_37	Guardant3603	PIK3CA	E542K	Missense
WUSTL3_37	Guardant3603	PIK3CA	K11N	Missense
WUSTL3_37	Guardant3603	PIK3CA	E726K	Missense
WUSTL3_37	Guardant3603	PIK3CA	M1043I	Missense
WUSTL3_37	Guardant3603	SETD2	S180*	Nonsense
WUSTL3_37	Guardant3603	SETD2	Q5*	Nonsense
WUSTL3_37	Guardant3603	SETD2	S918*	Nonsense
WUSTL3_37	Guardant3603	SETD2	S1437*	Nonsense
WUSTL3_37	Guardant3603	TP53	Q192*	Nonsense
WUSTL3_37	Guardant3603	TP53	C135Y	Missense
WUSTL3_37	Guardant3603	TP53	G199*	Nonsense
WUSTL3_37	Guardant3603	MSH6	S1246fs	Nonsense
WUSTL3_37	Guardant3603	MSH6	S200*	Nonsense
WUSTL3_37	Guardant3603	ATM	Splice Site SNV	SNV
WUSTL3_37	Guardant3603	ATM	Biallelic	Biallelic Loss
WUSTL3_37	Guardant3603	SMAD4	Q442*	Nonsense
WUSTL3_37	Guardant3603	SMAD4	S178*	Nonsense
WUSTL3_37	Guardant3603	AKT1	Q79K	Missense
WUSTL3_37	Guardant3603	ALK	E1408K	Missense
WUSTL3_37	Guardant3603	ARID1A	E2032*	Nonsense
WUSTL3_37	Guardant3603	ATR	S1372*	Nonsense
WUSTL3_37	Guardant3603	BAP1	S287*	Nonsense
WUSTL3_37	Guardant3603	BRAF	Amp	Amplification
WUSTL3_37	Guardant3603	BRCA2	S1720fs	Frameshift
WUSTL3_37	Guardant3603	CCND1	Amp	Amplification
WUSTL3_37	Guardant3603	CDH1	S9*	Nonsense
WUSTL3_37	Guardant3603	ERBB2	D769H	Missense
WUSTL3_37	Guardant3603	EZH2	H694Y	Missense
WUSTL3_37	Guardant3603	NBN	Q448*	Nonsense

WUSTL3_37	Guardant3603	NOTCH1	S2211*	Nonsense
WUSTL3_37	Guardant3603	MED12	Y1036fs	Frameshift
WUSTL3_37	Guardant3603	RAD54L	S563*	Nonsense
WUSTL3_37	Guardant3603	BRAF	649L	Synonymous
WUSTL3_37	Guardant3603	BTK	L31V	Missense
WUSTL3_37	Guardant3603	CDH1	S851*	Nonsense
WUSTL3_37	Guardant3603	DDR2	E516A	Missense
WUSTL3_37	Guardant3603	DDR2	L666V	Missense
WUSTL3_37	Guardant3603	DDR2	L83L	Synonymous
WUSTL3_37	Guardant3603	DDR2	Splice Site SNV	SNV
WUSTL3_37	Guardant3603	EGFR	L1017L	Synonymous
WUSTL3_37	Guardant3603	ERBB2	L11L	Synonymous
WUSTL3_37	Guardant3603	ESR1	E423del	InDel
WUSTL3_37	Guardant3603	ESR1	I298M	Missense
WUSTL3_37	Guardant3603	ESR1	M286I	Missense
WUSTL3_37	Guardant3603	FGFR2	H254Y	Missense
WUSTL3_37	Guardant3603	FGFR4	E435K	Missense
WUSTL3_37	Guardant3603	IDH1	E403K	Missense
WUSTL3_37	Guardant3603	KIT	D760N	Missense
WUSTL3_37	Guardant3603	MAP2K1	E348D	Missense
WUSTL3_37	Guardant3603	MET	A1196T	Missense
WUSTL3_37	Guardant3603	MET	E873K	Missense
WUSTL3_37	Guardant3603	MPL	S381C	Missense
WUSTL3_37	Guardant3603	MTOR	E1613K	Missense
WUSTL3_37	Guardant3603	MTOR	E1852K	Missense
WUSTL3_37	Guardant3603	MTOR	D2459H	Missense
WUSTL3_37	Guardant3603	PDGFRA	T1052M	Missense
WUSTL3_37	Guardant3603	PDGFRB	1538I	Synonymous
WUSTL3_37	Guardant3603	ROS1	P1454S	Missense
WUSTL3_37	Guardant3603	ROS1	S1577F	Missense
WUSTL3_37	Guardant3603	ROS1	L760V	Missense
WUSTL3_37	Guardant3603	SMO	E664Q	Missense
TXO1_1	Guardant3601	ESR1	D538G	Missense
TXO1_1	Guardant3601	ESR1	L536L	Synonymous
TXO1_1	Guardant3601	ESR1	Y537N	Missense
TXO1_1	Guardant3601	ARID1A	Y1734*	Nonsense
TXO1_1	Guardant3601	TP53	E180K	Missense
TXO1_1	Guardant3601	CCND1	Amp	Amplification
TXO1_1	Guardant3601	BRCA1	E1214D	Missense
TXO1_1	Guardant3601	MET	P773P	Synonymous
TXO1_1	Guardant3601	BRAF	S126C	Missense
TXO1_1	Guardant3601	GATA3	H424Y	Missense
TXO1_1	Guardant3601	ATM	V1260V	Synonymous
TXO1_1	Guardant3601	APC	G1357A	Missense
TXO1_2	Tempus xF	ARID1A	P1115R	Missense

TXO1_3	8	Guardant3603		ESR1	D538G	Missense
TXO1_3	8	Guardant3603		TP53	E180K	Missense
TXO1_3	8	Guardant3603		ARID1A	Y1734*	Nonsense
TXO1_4	8	Guardant3604		ESR1	D538G	Missense
TXO1_4	8	Guardant3604		ESR1	Y537N	Missense
TXO1_4	8	Guardant3604		ARID1A	Y1734*	Nonsense
TXO1_4	8	Guardant3604		TP53	E180K	Missense
TXO1_4	8	Guardant3604		CCND1	Amp	Amplification
TXO1_4	8	Guardant3604		PDGFR	A220P	Missense
TXO1_4	8	Guardant3604		<i>BRCA2</i>	<i>S2213Y</i>	Missense
TXO1_4	8	Guardant3604		<i>GATA3</i>	<i>H424Y</i>	Missense
TXO1_4	8	Guardant3604		AR	I899I	Synonymous
TXO1_4	8	Guardant3604		<i>APC</i>	<i>G1357A</i>	Missense
TXO1_4	8	Guardant3604		<i>BRAF</i>	<i>S126C</i>	Missense
TXO1_4	8	Guardant3604		<i>FGFR2</i>	<i>E197G</i>	Missense
TXO1_4	8	Guardant3604		ATM	V1260V	Synonymous
TXO1_4	8	Guardant3604		ATM	Q91Q	Synonymous
TXO1_5	8	Guardant3605		ESR1	D538G	Missense
TXO1_5	8	Guardant3605		<i>ESR1</i>	<i>H356D</i>	Missense
TXO1_5	8	Guardant3605		<i>ESR1</i>	<i>H524L</i>	Missense
TXO1_5	8	Guardant3605		ESR1	Y537S	Missense
TXO1_5	8	Guardant3605		<i>ESR1</i>	<i>L536L</i>	Synonymous
TXO1_5	8	Guardant3605		ESR1	Y537N	Missense
TXO1_5	8	Guardant3605		ARID1A	Y1734*	Nonsense
TXO1_5	8	Guardant3605		TP53	E180K	Missense
TXO1_5	8	Guardant3605		CCND1	Amp	Amplification
TXO1_5	8	Guardant3605		PIK3CA	Amp	Amplification
TXO1_5	8	Guardant3605		NOTCH1	H191H	Synonymous
TXO1_5	8	Guardant3605		APC	Splice Site SNV	SNV
TXO1_5	8	Guardant3605		<i>APC</i>	<i>G1357A</i>	Missense
TXO1_5	8	Guardant3605		<i>GATA3</i>	<i>H424Y</i>	Missense
TXO1_5	8	Guardant3605		AR	I899I	Synonymous
TXO1_5	8	Guardant3605		<i>FGFR2</i>	<i>E197G</i>	Missense
TXO1_6	8	Tempus xF	6	ESR1	D538G	Missense
TXO1_6	8	Tempus xF	6	<i>ESR1</i>	<i>H356D</i>	Missense
TXO1_6	8	Tempus xF	6	ESR1	F404L	Missense
TXO1_6	8	Tempus xF	6	<i>ESR1</i>	<i>H542L</i>	Missense
TXO1_6	8	Tempus xF	6	ESR1	E380Q	Missense
TXO1_6	8	Tempus xF	6	<i>ESR1</i>	<i>D351E</i>	Missense
TXO1_6	8	Tempus xF	6	ESR1	F404I	Missense
TXO1_6	8	Tempus xF	6	ESR1	F404L	Missense
TXO1_6	8	Tempus xF	6	ESR1	M421V	Missense
TXO1_6	8	Tempus xF	6	<i>ESR1</i>	<i>H356Y</i>	Missense
TXO1_6	8	Tempus xF	6	<i>ESR1</i>	<i>M421L</i>	Missense
TXO1_6	8	Tempus xF	6	<i>ESR1</i>	<i>H356N</i>	Missense

TXO1_6	8	Tempus xF	6	ESR1	L544V	Missense
TXO1_6	8	Tempus xF	6	ESR1	V422del	InDel
TXO1_6	8	Tempus xF	6	ESR1	L403R	Missense
TXO1_6	8	Tempus xF	6	ESR1	M421I	Missense
TXO1_6	8	Tempus xF	6	ESR1	D351H	Missense
TXO1_6	8	Tempus xF	6	ESR1	E385Q	Missense
TXO1_6	8	Tempus xF	6	ESR1	Y537S	Missense
TXO1_6	8	Tempus xF	6	ARID1A	Y1734*	Nonsense
TXO1_6	8	Tempus xF	6	TP53	E180K	Missense
TXO1_6	8	Tempus xF	6	ALK	S358C	Missense
TXO1_6	8	Tempus xF	6	BRAF	S126C	Missense
TXO1_6	8	Tempus xF	6	ATM	V1260V	Synonymous
TXO1_6	8	Tempus xF	6	ATM	Q91Q	Synonymous
TXO1_6	8	Tempus xF	6	BRCA2	S2213Y	Missense
TXO1_6	8	Tempus xF	6	GATA3	H424Y	Missense
TXO1_6	8	Tempus xF	6	AR	I899I	Synonymous
TXO1_6	8	Tempus xF	6	CCND1	Amp	Amplification
TXO1_6	8	Tempus xF	6	GNAS	K307N	Missense
TXO1_6	8	Tempus xF	6	CCND1	F160F	Synonymous
TXO1_6	8	Tempus xF	6	ARID1A	K1662N	Missense
TXO1_6	8	Tempus xF	6	PMS2	D550Y	Missense
TXO1_6	8	Tempus xF	6	ESR1	T347del	InDel
TXO1_6	8	Tempus xF	6	ROS1	V1881V	Synonymous
TXO1_6	8	Tempus xF	6	DDR2	F306F	Synonymous
TXO1_6	8	Tempus xF	6	PDGFRA	K226T	Missense
TXO1_6	8	Tempus xF	6	ROS1	V25L	Missense
TXO1_6	8	Tempus xF	6	FGFR2	E197G	Missense
TXO1_6	8	Tempus xF	6	MTOR	M417I	Missense
TXO1_6	8	Tempus xF	6	ESR1	423del	InDel
TXO1_6	8	Tempus xF	6	MYC	Splice Site SNV	SNV
TXO1_7	8	Guardant3607	7	ESR1	D538G	Missense
TXO1_7	8	Guardant3607	7	ESR1	V422del	InDel
TXO1_7	8	Guardant3607	7	ESR1	Y537N	Missense
TXO1_7	8	Guardant3607	7	ARID1A	Y1734*	Nonsense
TXO1_7	8	Guardant3607	7	TP53	E180K	Missense
TXO1_7	8	Guardant3607	7	APC	R405*	Nonsense
TXO1_7	8	Guardant3607	7	ARID1A	P1115R	Missense
TXO1_7	8	Guardant3607	7	ALK	S358C	Missense
TXO1_7	8	Guardant3607	7	BRAF	S126C	Missense
TXO1_7	8	Guardant3607	7	BRCA2	S2213Y	Missense
TXO1_7	8	Guardant3607	7	GATA3	H424Y	Missense
TXO1_7	8	Guardant3607	7	PMS2	D550Y	Missense
TXO1_7	8	Guardant3607	7	APC	G1357A	Missense
TXO1_7	8	Guardant3607	7	ESR1	H356D	Missense
TXO1_7	8	Guardant3607	7	ARID1A	K1662N	Missense

TXO1_7	8	Guardant3607	ESR1	F404L	Missense
TXO1_7	8	Guardant3607	ROS1	V1881V	Synonymous
TXO1_7	8	Guardant3607	JAK1	E59K	Missense
TXO1_7	8	Guardant3607	BRCA2	R435I	Missense
TXO1_7	8	Guardant3607	CDH1	S9L	Missense
TXO1_7	8	Guardant3607	ESR1	E542D	Missense
TXO1_7	8	Guardant3607	ESR1	M421I	Missense
TXO1_7	8	Guardant3607	BRCA1	E1214D	Missense
TXO1_7	8	Guardant3607	ESR1	V355A	Missense
TXO1_7	8	Guardant3607	HNF1A	E274Q	Missense
TXO1_7	8	Guardant3607	ESR1	L379I	Missense
TXO1_7	8	Guardant3607	PMS2	D550Y	Missense
UCLA1_1	9	Guardant3601	TP53	L111P	Missense
UCLA1_1	9	Guardant3601	FGFR1	Amp	Amplification
UCLA1_1	9	Guardant3601	MYC	Amp	Amplification
UCLA1_1	9	Guardant3601	MAPK3	G102_I103del	InDel
UCLA1_2	9	Guardant3602	ESR1	D538G	Missense
UCLA1_2	9	Guardant3602	ESR1	Y537N	Missense
UCLA1_2	9	Guardant3602	ESR1	Y537S	Missense
UCLA1_2	9	Guardant3602	ESR1	Y537C	Missense
UCLA1_2	9	Guardant3602	ESR1	L536R	Missense
UCLA1_2	9	Guardant3602	ESR1	PAX2 fusion	Fusion
UCLA1_2	9	Guardant3602	ESR1	FOXJ2 fusion	Fusion
UCLA1_2	9	Guardant3602	ESR1	RELA fusion	Fusion
UCLA1_2	9	Guardant3602	ESR1	SNAP91 fusion	Fusion
UCLA1_2	9	Guardant3602	ESR1	TNRC6A fusion	Fusion
UCLA1_2	9	Guardant3602	ESR1	AGFG1 fusion	Fusion
UCLA1_2	9	Guardant3602	ESR1	SMAP1 fusion	Fusion
UCLA1_2	9	Guardant3602	ESR1	YAP1 fusion	Fusion
UCLA1_2	9	Guardant3602	ESR1	TNS3 fusion	Fusion
UCLA1_2	9	Guardant3602	ESR1	EWSR1 fusion	Fusion
UCLA1_2	9	Guardant3602	TP53	L111P	Missense
UCLA1_2	9	Guardant3602	ARID1A	L299Vfs*102	Frameshift
UCLA1_2	9	Guardant3602	PTEN	Exon 6 Del	InDel
UCLA1_2	9	Guardant3602	FGFR1	Amp	Amplification
UCLA1_2	9	Guardant3602	MYC	Amp	Amplification
UCLA1_2	9	Guardant3602	ATR	E203K	Missense
UCLA1_2	9	Guardant3602	CCDC170-ESR1	CCDC170-ESR1 fusion	Fusion
UCLA1_2	9	Guardant3602	CHEK1	F455F	Synonymous
UCLA1_2	9	Guardant3602	ESR1	L536L	Synonymous
UCLA1_2	9	Guardant3602	EZH1	S388G	Missense
UCLA1_2	9	Guardant3602	LIG4	T697T	Synonymous
UCLA1_2	9	Guardant3602	LRP6	Y544C	Missense
UCLA1_2	9	Guardant3602	LRP6	D325N	Missense

UCLA1_2	9	Guardant3602		MAPK3	G102_I103del	InDel
UCLA1_2	9	Guardant3602		MTOR	P1864L	Missense
UCLA1_2	9	Guardant3602		PIK3R1	R577_L581del	InDel
UCLA1_2	9	Guardant3602		POLA1	R1354H	Missense
UCLA1_2	9	Guardant3602		RECQL4	E1153del	InDel
UCLA1_2	9	Guardant3602		RSPO4	E138_G142del	InDel
UCLA1_2	9	Guardant3602		SOX10	S415S	Synonymous
UCLA1_2	9	Guardant3602		TEK	A739A	Synonymous