

Supplementary Appendix

This appendix has been provided by the authors to give readers additional information about their work.

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Supplementary Appendix

Supplement to: Pritchard CC, Mateo J, Walsh MF, *et al* Inherited DNA Repair Gene Mutations in Men with Metastatic Prostate Cancer

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Table S1: Detail on Pathogenic Germline DNA Repair Mutations in 7 Metastatic Prostate Cancer Series

ID	Gene	p.	c.	Tumor LOH/ 2nd Hit	Age of Onset	Gleason	Race/ Ethnicity	Var. Class*
1: SU2C/PCF Discovery, n=150 (Robinson et al.)								
SC_9059	ATM	p.V1268*	NM_000051.3:c.3802del	LOH	51	8(4+4)	white	P
MO_1221	ATM	splicing	NM_000051.3:c.7630-2C>T	LOH	50	9(4+5)	white	LP
SC_9072	ATM	p.W2638*	NM_000051.3:c.7913G>A	not detected	61	unknown	black	P
MO_1232	BRCA1	p.Q1756Pfs*74	NM_007294.3:c.5266dup (5382insC)	not detected	61	9(4+5)	white	P
MO_1071	BRCA1	p.C61G	NM_007294.3:c.181T>G	LOH	49	unknown	white	P
SM-67ES4	BRCA2	p.Q699Sfs*31	NM_000059.3:c.2094del	p.L2362Cfs*5	64	9(4+5)	white	P
SC_9061	BRCA2	p.K1057Tfs*8	NM_000059.3:c.3170_3174del	LOH	66	9(4+5)	white	P
MO_1176	BRCA2	p.L1491Qfs*12	NM_000059.3:c.4472_4475del	LOH	55	10(5+5)	white	P
MO_1013	BRCA2	p.E1493Vfs*10	NM_000059.3:c.4478_4481del	LOH	50	8(4+4)	white	P
SC_9076	BRCA2	p.I1516Dfs*13	NM_000059.3:c.4544dup	LOH	65	8(4+4)	asian	P
TP_2054	BRCA2	p.S1882*	NM_000059.3:c.5645C>A	LOH	67	10(5+5)	unknown	P
SC_9090	BRCA2	p.S1955*	NM_000059.3:c.5864C>A	LOH; p.D1575Y	72	8(4+4)	white	P
SC_9022	BRCA2	p.S1982Dfs*22	NM_000059.3:c.5946del (6174delT)	LOH	57	7(4+3)	white	P
SC_9083	BRCA2	p.V2969Cfs*7	NM_000059.3:c.8904del	p.S871Qfs*3	53	8(5+3)	white	P
MO_1124	RAD51D	splicing	NM_002878.3:c.264-1G>A	not detected	42	unknown	white	LP
2: SU2C/PCF Validation, n=84								
SM-4JC6B	ATM	p.K2589Nfs*17	NM_000051.3:c.7767del	unknown	61	8(4+4)	hispanic	P
SC_9079	ATM	splicing	NM_000051.3:c.8418+1_8418+4del	unknown	55	unknown	white	LP
SM-5CQ5A	ATR	p.R2148*	NM_001184.3:c.6442C>T	LOH	57	9(4+5)	white	LP
SC_9137	BRCA1	p.Q1756Pfs*74	NM_007294.3:c.5266dup (5382insC)	LOH; p.T1196A	64	7(4+3)	white	P
SM-7LGUA	BRCA1	p.Q1756Pfs*74	NM_007294.3:c.5266dup (5382insC)	LOH	73	7(3+4)	white	P
SC_9085	BRCA2	p.V1283Kfs*2	NM_000059.3:c.3847_3848del	not detected	62	unknown	white	P
SC_9025	BRCA2	p.N1626Sfs*12	NM_000059.3:c.4876_4877del	not detected	54	7(4+3)	white	P
SC_9004	BRCA2	p.V1862Efs*11	NM_000059.3:c.5585_5588del	LOH	55	9(4+5)	white	P
TP_2077	FAM175A	p.I343Sfs*7	NM_139076.2:c.1027del	not detected	unknown	unknown	unknown	LP
3: Royal Marsden, n=131								
RM037	ATM	p.E1971Rfs*19	NM_000051.3:c.5910del	p.I2752F (in KD)	59.9	10	white	P
RM129	BRCA2	p.P9Qfs*16	NM_000059.3:c.26del	LOH	54.8	unknown	white	P
RM128	BRCA2	splicing	NM_000059.3:c.517-2A>G	LOH	60.6	9	white	P
RM077	BRCA2	p.V1283Kfs*2	NM_000059.3:c.3847_3848del	LOH	68.1	9	white	P
RM142	BRCA2	p.S1882*	NM_000059.3:c.5645C>A	LOH	63.3	9	white	P
RM152	BRCA2	p.L2253Ffs*7	NM_000059.3:c.6757_6758del	LOH	53.4	7	white	P
RM049	BRCA2	p.Y2660*	NM_000059.3:c.7980T>G	unknown	61.3	unknown	white	P
RM004	BRCA2	p.Q2859Kfs*4	NM_000059.3:c.8575del	LOH	62.8	unknown	white	P
RM010	CHEK2	p.S428F	NM_007194.3:c.1283C>T	not detected	72.6	9	white	LP
RM072	MRE11A	p.Y179*	NM_005591.3:c.537T>A	not detected	64.6	8	white	LP
RM003	MSH6	p.Y214*	NM_000179.2:c.642C>G	hypermutation	64.1	8	white	P
RM169	NBN	p.K219Nfs*16	NM_002485.4:c.657_661del	not detected	61.7	9	white	P

RM047	<i>PALB2</i>	p.W1038*	NM_024675.3:c.3113G>A	unknown	53.4	9	white	P
RM005	<i>PALB2</i>	p.W1038*	NM_024675.3:c.3113G>A	not detected	63.4	9	white	P
RM061	<i>RAD51C</i>	p.L61Afs*11	NM_058216.1:c.179_180del	unknown	73.1	9	white	P
RM122	<i>RAD51D</i>	p.T272Lfs*58	NM_001142571.1:c.814del	unknown	47.1	9	white	P
4: University of Washington, n=91								
06-134	<i>ATM</i>	p.K468Efs*18	NM_000051.3:c.1402_1403del	LOH	67	9 (5+4)	asian	P
09-012	<i>BRCA2</i>	p.S1955*	NM_000059.3:c.5864C>A	unknown	59	9(4+5)	white	P
05-011	<i>BRCA2</i>	p.S1982Rfs*22	NM_000059.3:c.5946del (6174delT)	LOH	73	7 (3+4)	white	P
07-097	<i>BRCA2</i>	p.S1982Rfs*22	NM_000059.3:c.5946del (6174delT)	LOH	63	8 (4+4)	white	P
99-091	<i>CHEK2</i>	p.V198Ffs*7	NM_007194.3:c.591del	not detected	73	9(4+5)	unknown	P
98-372	<i>CHEK2</i>	p.Y113*	NM_007194.3:c.339C>G	not detected	66	unknown	asian	LP
13-117	<i>GEN1</i>	p.Q430*	NM_182625.3:c.1288C>T	unknown	56	9(4+5)	white	LP
01-002	<i>MSH2 ex1-8 +EPCAM del</i>		<i>MSH2 ex1-8 +EPCAM del</i>	LOH + MSI	43	9(4+5)	white	P
5: Weill Cornell Precision Medicine, n=69								
PM156	<i>ATM</i>	p.L1255*	NM_000051.3:c.3764del	not detected	61	unknown	unknown	P
PM365	<i>ATM</i>	p.S1731*	NM_000051.3:c.5192C>G	not detected	76	unknown	white	P
PM195	<i>ATR</i>	Large del	del exon 45-47 + 3'UTR	not detected	69	5 (3+2)	white	P
PM258	<i>BRCA2</i>	p.A938Pfs*21	NM_000059.3:c.2808_2811del	not detected	59	7(4+3)	hispanic	P
PM183	<i>BRCA2</i>	p.E1308*	NM_000059.3:c.3922G>T	not detected	59	7(4+3)	hispanic	P
PM12	<i>BRCA2</i>	p.E2198Nfs*4	NM_000059.3:c.6591_6592del	not detected	67	9(4+5)	white	P
PM156	<i>CHEK2</i>	p.T367Mfs*15	NM_007194.3:c.1100del	not detected		unknown	unknown	P
PM63	<i>RAD51D</i>	p.G110Rfs*2	NM_002878.3:c.326dup	not detected	55	8(4+4)	black	P
6: University of Michigan, n=43								
WA_24	<i>ATM</i>	p.G1458Efs*15	NM_000051.3:c.4373del	not detected	72	8	white	P
WA_40	<i>BRCA1</i>	splicing	NM_007294.3:c.5075-1G>A	LOH	72	10	white	P
WA_46	<i>GEN1</i>	p.R406*	NM_182625.3:c.1216C>T	unknown	66	9	white	LP
WA_29	<i>PMS2</i>	p.V68Wfs*20	NM_000535.5:c.202_212del	unknown	67	8	white	P
7: Memorial Sloan Kettering, n=124								
MSK003	<i>ATM</i>	p.R248*	NM_000051.3:c.742C>T	unknown	62	4+3	white	P
MSK004	<i>BRCA1</i>	p.Q1756Pfs*74	NM_007294.3:c.5266dup (5382insC)	LOH	59	4+5	white	P
MSK009	<i>BRCA2</i>	p.K1789Qfs*18	NM_000059.3:c.5364dup	LOH	58	4+3	white	P
MSK015	<i>BRCA2</i>	p.R3128*	NM_000059.3:c.9382C>T	unknown	57	4+5	white	P
MSK008	<i>BRCA2</i>	p.I605Nfs*11	NM_000059.3:c.1813dup	unknown	59	4+4	white	P
MSK005	<i>BRCA2</i>	p.F1546Lfs*22	NM_000059.3:c.4638del	unknown	51	4+3	white	P
MSK006	<i>BRCA2</i>	p.S1982Rfs*22	NM_000059.3:c.5946del (6174delT)	not detected	56	5+4	white	P
MSK007	<i>BRCA2</i>	p.S1982Rfs*22	NM_000059.3:c.5946del (6174delT)	unknown	61	4+5	white	P
MSK010	<i>BRCA2</i>	p.S1982Rfs*22	NM_000059.3:c.5946del (6174delT)	unknown	58	4+4	white	P
MSK011	<i>BRCA2</i>	p.S1982Rfs*22	NM_000059.3:c.5946del (6174delT)	not detected	49	3+4	white	P
MSK012	<i>BRCA2</i>	p.S1982Rfs*22	NM_000059.3:c.5946del (6174delT)	not detected	64	4+4	white	P
MSK013	<i>BRCA2</i>	p.S1982Rfs*22	NM_000059.3:c.5946del (6174delT)	not detected	58	4+5	white	P
MSK014	<i>BRCA2</i>	p.E2198Nfs*4	NM_000059.3:c.6591_6592del	p.N1005fs	61	5+4	white	P
MSK016	<i>BRCA2</i>	splicing (del exon 21)	NM_000059.3:c.8754+4A>G (exon 21)	LOH	65	4+5	white	P

MSK017	<i>BRIP1</i>	p.R798*	NM_032043:c.2392C>T	unknown	66	4+3	white	P
MSK007	<i>CHEK2</i>	p.S428F	NM_007194.3:c.1283C>T	unknown	61	4+5	white	LP
MSK018	<i>CHEK2</i>	p.T367Mfs*15	NM_007194.3:c.1100del	unknown	48	4+4	white	P
MSK019	<i>CHEK2</i>	p.T367Mfs*15	NM_007194.3:c.1100del	unknown	64	5+4	white	P
MSK020	<i>CHEK2</i>	p.T367Mfs*15	NM_007194.3:c.1100del	unknown	68	4+4	white	P
MSK021	<i>CHEK2</i>	p.T367Mfs*15	NM_007194.3:c.1100del	unknown	54	3+4	white	P
MSK022	<i>CHEK2</i>	p.E64K	NM_007194.3: c.190G>A	unknown	75	5+4	white	LP
MSK025	<i>NBN</i>	p.L19*	NM_002485:c.56del	unknown	65	4+4	unknown	LP
MSK026	<i>PALB2</i>	exon 11 deletion	NM_024675:.c.exon 11 deletion	LOH	66	4+5	white	P
MSK027	<i>PMS2</i>	p.S46I	NM_00535.5:c.137G>T	unknown	64	4+4	white	LP

*Variant classification according to ACMG/AMP guidelines, P= pathogenic, LP= likely pathogenic

Table S2: Detail on Pathogenic Germline DNA Repair Mutations in Primary Prostate Cancer from TCGA

ID	Gene	p.	c.	Tumor LOH/ 2nd Hit	Age of Onset	Gleason	Race/ Ethnicity	Var. Class*
tcga-g9-7521	<i>ATM</i>	p.V1268*	NM_000051:c.3802del	no	52	8(4+4)	white	P
tcga-ej-5511	<i>ATM</i>	p.Y2334Qfs*4	NM_000051:c.7000_7003del	p.E2164K	55	7(3+4)	black	P
tcga-hc-7745	<i>ATM</i>	p.Y264Ifs*12	NM_000051:c.790del	loss of germline allele	65	7(4+3)	white	LP
tcga-v1-a9zk	<i>ATM</i>	p.R447*	NM_000051:c.1339C>T	no	68	9(4+5)	white	P
tcga-ch-5753	<i>ATM</i>	p.E1978*	NM_000051:c.5932G>T	LOH likely	70	9(4+5)	white	P
tcga-hc-8259	<i>BARB1</i>	p.V154Efs*8	NM_000465:c.457_460dup	no	50	6(3+3)	black	P
tcga-zg-a9nd	<i>BRCA1</i>	p.R1751*	NM_007294:c.5251C>T	no	55	9(5+4)	white	P
tcga-hc-8216	<i>BRCA1</i>	p.V923Ifs*76	NM_007294:c.2767_2770del	chr17:g. 41231904G>A	58	7(4+3)	white	P
tcga-hc-7231	<i>BRCA1</i>	p.Q1408*	NM_007294:c.4222C>T	no	66	7(3+4)	white	P
tcga-yl-a8si	<i>BRCA2</i>	p.T1566Dfs*9	NM_000059:c.4691dup	no	69	9(4+5)	white	P
tcga-2a-a8vo	<i>BRIP1</i>	p.A759Serfs*6	NM_032043:c.2273dup	no	57	6(3+3)	white	P
tcga-v1-a9z8	<i>CHEK2</i>	p.T367Mfs*15	NM_007194:c.1100delC	no	59	9(5+4)	white	P
tcga-m7-a71z	<i>CHEK2</i>	p.T367Mfs*15	NM_007194:c.1100delC	LOH	62	7(4+3)	white	P
tcga-v1-a9zr	<i>MRE11A</i>	p.T408Nfs*49	NM_005591:c.1222dup	no	68	8(4+4)	white	LP
tcga-ch-5769	<i>MSH2</i>	p.F136Lfs*38	NM_000251:c.408del	hypermuted	48	9(5+4)	white	P
tcga-xk-aaiw	<i>MSH6</i>	p.F1088Lfs*5	NM_000179:c.3261dup	loss of germline allele	78	9(5+4)	white	P
tcga-xk-aaja	<i>NBN</i>	p.L654Afs*5	NM_002485:c.1958dup	loss of germline allele	62	7(4+3)	unknown	LP
tcga-hc-8256	<i>PALB2</i>	p.R686Gfs*23	NM_024675:c.2052del	no	53	7(3+4)	black	P
tcga-hc-a4zv	<i>PALB2</i>	p.I76Yfs*101	NM_024675:c.226del	LOH likely (copy loss)	56	9(5+4)	black	P
tcga-j9-a8cp	<i>PMS2</i>	p.S46I	NM_000535:c.137G>T	no	66	7(4+3)	white	LP
tcga-ej-a8fn	<i>RAD51C</i>	p.R237*	NM_058216:c.709C>T	no	58	7(3+4)	white	P
tcga-ch-5752	<i>RAD51C</i>	p.F32Sfs*8	NM_058216.2:c.93del	no	66	8(4+4)	white	P
tcga-ch-5792	<i>RAD51D</i>	p.W72*	NM_001142571:c.216G>A	LOH likely (copy loss)	57	9(4+5)	white	P

*Variant classification according to ACMG/AMP guidelines, P= pathogenic, LP= likely pathogenic

Table S3: Detailed Demographics of Each Series

Series	ID	Germline mutation	Age of Onset	Race/Ethnicity	Gleason	Prostate Cancer 1st Degree	Prostate Cancer >1st Degree	Cancer Other 1st Degree	Cancer Other >1st Degree	Other Cancers
1_SU2C-PCF	MO_1124	1	42	white	Unk	1	1	1	1	colon and breast, hodgkin
1_SU2C-PCF	MO_1071	1	49	white	Unk	0	0	1	1	breast, breast
1_SU2C-PCF	MO_1013	1	50	white	8(4+4)	0	0	1	0	pancreatic, leukemia
1_SU2C-PCF	MO_1221	1	50	white	9(4+5)	1	0	1	1	unknown
1_SU2C-PCF	SC_9059	1	51	white	8(4+4)	0	0	1	0	nos
1_SU2C-PCF	SC_9083	1	53	white	8(5+3)	1	1	1	1	breast, brain
1_SU2C-PCF	MO_1176	1	55	white	10(5+5)	0	0	1	0	breast and ovary
1_SU2C-PCF	SC_9022	1	57	white	7(4+3)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	MO_1232	1	61	white	9(4+5)	0	0	1	0	breast, colon, CLL
1_SU2C-PCF	SC_9072	1	61	black	Unk	0	0	0	0	
1_SU2C-PCF	SM-67ES4	1	64	white	9(4+5)	0	0	1	0	GI, lung
1_SU2C-PCF	SC_9076	1	65	asian	8(4+4)	0	0	0	0	
1_SU2C-PCF	SC_9061	1	66	white	9(4+5)	1	1	0	1	nos
1_SU2C-PCF	TP_2054	1	67	Unk	10(5+5)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	SC_9090	1	72	white	8(4+4)	0	0	1	0	lung
1_SU2C-PCF	SC_9010	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	SC_9008	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	SC_9009	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	SC_9001	0	43	black	9(5+4)	0	0	0	0	
1_SU2C-PCF	SC_9003	0	60	white	9(4+5)	0	0	0	0	
1_SU2C-PCF	SC_9007	0	50	white	7(4+3)	0	0	0	0	
1_SU2C-PCF	SC_9019	0	75	white	6(3+3)	0	1	0	0	bladder
1_SU2C-PCF	SC_9012	0	67	white	8(4+4)	0	1	1	0	breast and uterine
1_SU2C-PCF	SC_9011	0	67	white	7(3+4)	0	0	1	0	nos
1_SU2C-PCF	SC_9020	0	69	white	7(3+4)	0	0	1	0	ovary
1_SU2C-PCF	SC_9021	0	53	white	7(3+4)	0	0	0	1	pancreatic
1_SU2C-PCF	SC_9016	0	61	white	6(3+3)	0	0	0	0	
1_SU2C-PCF	SC_9005	0	66	white	7(3+4)	0	0	0	0	
1_SU2C-PCF	SC_9018	0	62	white	8(4+4)	0	0	1	1	kidney, liver
1_SU2C-PCF	SC_9017	0	65	white	9(4+5)	0	0	0	0	
1_SU2C-PCF	SC_9027	0	49	white	6(3+3)	0	0	1	0	lung, throat
1_SU2C-PCF	SC_9026	0	62	white	Unk	0	1	1	1	male breast, colon, lung, bone
1_SU2C-PCF	SC_9028	0	65	white	9(4+5)	0	0	1	0	lung, lung
1_SU2C-PCF	SC_9029	0	61	white	7(4+3)	0	0	0	1	lung
1_SU2C-PCF	SC_9032	0	69	white	6(3+3)	0	0	1	0	breast
1_SU2C-PCF	SC_9035	0	69	white	9(5+4)	1	0	0	0	
1_SU2C-PCF	SC_9034	0	65	white	9(5+4)	0	0	1	0	melanoma
1_SU2C-PCF	SC_9036	0	71	white	8(4+4)	1	0	0	0	prostate
1_SU2C-PCF	SC_9038	0	64	white	8(4+4)	1	0	0	0	prostate
1_SU2C-PCF	SC_9037	0	63	white	9(4+5)	0	0	0	0	
1_SU2C-PCF	SC_9039	0	64	Unk	9(5+4)	1	0	0	0	prostate
1_SU2C-PCF	SC_9043	0	59	white	7(4+3)	0	0	0	0	
1_SU2C-PCF	SC_9050	0	63	white	6	0	0	1	0	colon
1_SU2C-PCF	SC_9054	0	71	white	10(5+5)	0	0	0	0	
1_SU2C-PCF	SC_9056	0	58	white	7(4+3)	0	0	0	0	
1_SU2C-PCF	SC_9055	0	54	white	9(4+5)	0	0	0	1	lymphoma
1_SU2C-PCF	SC_9080	0	72	white	8(4+4)	1	0	1	0	colon
1_SU2C-PCF	SC_9066	0	43	hispanic	Unk	1	1	0	1	uterine, brain
1_SU2C-PCF	SC_9065	0	76	white	7(4+3)	0	0	0	0	
1_SU2C-PCF	SC_9068	0	70	white	7(4+3)	0	0	1	0	pancreatic, bladder
1_SU2C-PCF	SC_9081	0	62	white	7(3+4)	0	0	1	0	skin
1_SU2C-PCF	SC_9082	0	65	white	9(4+5)	0	0	0	0	
1_SU2C-PCF	SC_9073	0	62	white	9(unk)	0	0	0	0	
1_SU2C-PCF	SC_9089	0	48	white	7(4+3)	0	0	0	1	breast, breast, breast
1_SU2C-PCF	SC_9092	0	69	white	7(4+3)	0	0	1	0	lung
1_SU2C-PCF	SC_9084	0	61	white	10(5+5)	0	1	0	0	
1_SU2C-PCF	SC_9086	0	61	white	9(4+5)	1	1	0	0	
1_SU2C-PCF	SC_9023	0	68	white	9(4+5)	0	0	1	0	nos

1_SU2C-PCF	SC_9024	0	60	white	8(3+5)	0	0	1	0	nos
1_SU2C-PCF	SC_9030	0	57	white	10(5+5)	0	0	0	0	
1_SU2C-PCF	SC_9031	0	39	black	7(3+4)	0	0	0	0	
1_SU2C-PCF	SC_9046	0	60	white	8(3+5)	0	0	0	0	
1_SU2C-PCF	SC_9047	0	71	white	Unk	0	0	0	0	
1_SU2C-PCF	SC_9048	0	61	white	9(4+5)	0	0	1	0	breast
1_SU2C-PCF	SC_9049	0	68	white	8(4+4)	0	0	1	0	nos
1_SU2C-PCF	SC_9058	0	68	white	9(4+5)	0	0	0	0	
1_SU2C-PCF	SC_9060	0	63	asian	8(3+5)	1	0	1	0	nos
1_SU2C-PCF	SC_9057	0	55	white	9(4+5)	0	0	0	0	
1_SU2C-PCF	SC_9062	0	50	white	9(5+4)	0	0	1	0	nos
1_SU2C-PCF	SC_9063	0	59	white	6(3+3)	0	0	0	0	
1_SU2C-PCF	SC_9071	0	53	white	7(4+3)	0	0	0	0	
1_SU2C-PCF	SC_9094	0	55	white	9(4+5)	1	0	0	0	
1_SU2C-PCF	SC_9096	0	81	white	10(5+5)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	SC_9097	0	67	white	9(5+4)	0	0	0	0	
1_SU2C-PCF	SC_9099	0	68	white	7(3+4)	0	0	0	1	nos
1_SU2C-PCF	SC_9100	0	74	white	7(3+4)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	SC_9103	0	60	white	7(3+4)	0	0	0	0	
1_SU2C-PCF	SC_9104	0	61	white	Unk	1	0	0	0	
1_SU2C-PCF	SC_9107	0	59	white	9(4+5)	0	0	1	1	nos
1_SU2C-PCF	SC_9109	0	49	white	9(4+5)	1	1	0	0	prostate, prostate
1_SU2C-PCF	MO_1012	0	64	white	7(3+4)	0	0	1	0	colon
1_SU2C-PCF	MO_1014	0	61	white	8(4+4)	0	0	0	0	
1_SU2C-PCF	SM-4W2N9	0	59	white	Unk	0	0	0	0	
1_SU2C-PCF	SM-4W2NA	0	72	white	9(4+5)	0	0	1	0	colon, ovary
1_SU2C-PCF	SM-4W2NC	0	55	white	7(4+3)	0	0	1	0	gastric, gastric and colon
1_SU2C-PCF	SM-4W2ND	0	66	white	9(4+5)	0	0	1	1	ovary, ovary, brain
1_SU2C-PCF	SM-4W2NG	0	50	white	7(4+3)	1	1	1	0	breast
1_SU2C-PCF	SM-4W2NH	0	53	white	9(4+5)	1	1	0	0	
1_SU2C-PCF	SM-4W2NI	0	54	white	8(4+4)	0	0	0	1	throat, throat
1_SU2C-PCF	SM-67ERS	0	55	white	7(unk)	1	0	1	0	breast
1_SU2C-PCF	SM-67ERT	0	72	white	7(3+4)	1	0	0	0	
1_SU2C-PCF	SM-67ERU	0	63	white	8(4+4)	0	0	0	0	
1_SU2C-PCF	SM-67ERW	0	67	black	Unk	1	0	1	0	brain
1_SU2C-PCF	SM-67ERX	0	56	white	9(4+5)	0	0	1	0	colon, colon
1_SU2C-PCF	SM-67ERZ	0	Unk	white	Unk	0	0	0	0	
1_SU2C-PCF	SM-67ES1	0	65	Unk	Unk	0	0	1	1	ocular, colon, breast
1_SU2C-PCF	SM-67ES2	0	51	white	7(4+3)	0	0	0	1	gastric
1_SU2C-PCF	SM-67ES6	0	69	white	9(5+4)	0	0	1	0	breast
1_SU2C-PCF	MO_1008	0	45	white	8(4+4)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	MO_1015	0	65	white	8(4+4)	0	1	0	1	nos
1_SU2C-PCF	MO_1020	0	61	white	8(4+4)	0	0	1	1	breast, bladder, nos
1_SU2C-PCF	MO_1040	0	51	white	7(unk)	0	1	0	0	prostate
1_SU2C-PCF	MO_1054	0	45	white	9(unk)	0	0	0	1	breast
1_SU2C-PCF	MO_1074	0	58	white	7(4+3)	0	0	0	1	leukemia
1_SU2C-PCF	MO_1084	0	63	white	6(3+3)	0	0	1	1	colon, lung, nos, gyn nos, gyn nos
1_SU2C-PCF	MO_1094	0	66	white	9(5+4)	1	0	1	0	ovary, endometrial, leukemia
1_SU2C-PCF	MO_1095	0	70	white	9(4+5)	1	0	1	0	colon and prostate, lung
1_SU2C-PCF	TP_2001	0	67	white	9(+)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	TP_2009	0	56	white	9(4+5)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	TP_2010	0	59	white	9(5+4)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	MO_1114	0	53	white	7(unk)	0	1	0	1	breast
1_SU2C-PCF	MO_1128	0	60	white	7(4+3)	1	0	1	1	bladder, throat
1_SU2C-PCF	MO_1130	0	53	white	7(3+4)	1	0	1	1	colon, breast, lymphoma, breast, nos
1_SU2C-PCF	TP_2032	0	60	white	Unk	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	MO_1096	0	57	black	8(4+4)	0	0	1	0	colon
1_SU2C-PCF	TP_2020	0	52	white	Unk	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	MO_1192	0	56	black	8(unk)	1	0	0	0	prostate, prostate, prostate
1_SU2C-PCF	MO_1179	0	70	white	9(4+5)	0	0	1	1	mesothelioma, bladder, lung

1_SU2C-PCF	MO_1184	0	67	white	9(4+5)	0	0	1	1	lung, esophageal, nos, lung
1_SU2C-PCF	MO_1162	0	40	white	8(4+4)	1	0	0	1	breast, nos
1_SU2C-PCF	MO_1215	0	54	white	7(4+3)	0	0	0	1	leukemia, leukemia
1_SU2C-PCF	MO_1241	0	75	white	10(5+5)	0	0	1	1	cervical,breast
1_SU2C-PCF	MO_1262	0	47	black	7(3+4)	1	0	0	1	nos, nos
1_SU2C-PCF	MO_1202	0	68	white	7(3+4)	0	0	1	1	ovary and melanoma, lung, mesothelioma, thyroid, ovary
1_SU2C-PCF	MO_1244	0	56	white	9(5+4)	0	0	1	0	breast
1_SU2C-PCF	MO_1249	0	50	white	Unk	1	0	0	1	nos, breast
1_SU2C-PCF	MO_1263	0	55	white	9(5+4)	0	0	0	0	
1_SU2C-PCF	TP_2034	0	50	asian	9(4+5)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	MO_1219	0	66	white	7(4+3)	0	0	1	0	colon
1_SU2C-PCF	MO_1337	0	61	white	7(4+3)	0	0	1	0	lung, colon
1_SU2C-PCF	MO_1316	0	55	white	6(4+2)	0	1	1	1	endometrial, colon, colon
1_SU2C-PCF	MO_1118	0	69	white	9(4+5)	1	0	1	0	lymphoma, colon, breast, skin
1_SU2C-PCF	MO_1161	0	64	white	10(5+5)	1	0	0	1	nos, nos
1_SU2C-PCF	MO_1336	0	58	white	6(3+3)	0	0	1	1	colon, lymphoma, ovary
1_SU2C-PCF	MO_1277	0	46	white	8(4+4)	0	1	1	0	bladder, colon
1_SU2C-PCF	TP_2060	0	71	Unk	10(5+5)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	MO_1339	0	77	white	8(4+4)	1	1	1	0	melanoma
1_SU2C-PCF	TP_2061	0	60	Unk	9(4+5)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	TP_2064	0	63	Unk	7(3+4)	Unk	Unk	Unk	Unk	unknown
1_SU2C-PCF	MO_1410	0	63	white	8(4+4)	1	1	0	0	
1_SU2C-PCF	SC_9091	0	59	black	Unk	0	0	1	1	lung, breast, colon
1_SU2C-PCF	SC_9093	0	54	black	10(5+5)	0	0	1	0	colon and ovary
1_SU2C-PCF	SM-581SR	0	40	white	6(3+3)	0	0	0	1	breast
1_SU2C-PCF	SM-5EEBM	0	45	white	Unk	0	0	1	0	colon, non-Hodgkin's lymphoma
1_SU2C-PCF	SM-5EEBN	0	66	white	7(4+3)	0	0	0	0	
1_SU2C-PCF	SM-5EEBO	0	63	white	7(3+4)	0	0	1	0	abdominal cancer nos
1_SU2C-PCF	SM-5SGU1	0	65	white	9(4+5)	0	0	0	0	
1_SU2C-PCF	SM-5SGU3	0	56	white	6(3+3)	1	0	0	0	
1_SU2C-PCF	SM-5SGU5	0	49	white	8(4+4)	1	0	0	0	
1_SU2C-PCF	SM-5SGU6	0	63	white	8(4+4)	1	1	1	0	lung
2_SU2C-PCF	SC_9004	1	55	white	9(4+5)	0	0	1	0	cervical
2_SU2C-PCF	SC_9025	1	54	white	7(4+3)	0	0	0	0	breast
2_SU2C-PCF	SC_9079	1	55	white	Unk	0	0	1	0	bone
2_SU2C-PCF	SC_9085	1	62	white	Unk	0	0	1	1	breast and ovary
2_SU2C-PCF	SC_9137	1	64	white	7(4+3)	1	0	0	0	
2_SU2C-PCF	SM-4JC6B	1	61	hispanic	8(4+4)	1	1	0	0	prostate in father, paternal grandfather
2_SU2C-PCF	SM-5CQ5A	1	57	white	9(4+5)	0	0	0	0	
2_SU2C-PCF	SM-7LGUA	1	73	white	7(3+4)	1	0	1	0	breast
2_SU2C-PCF	TP_2077	1	Unk	Unk	Unk	Unk	Unk	Unk	Unk	unknown
2_SU2C-PCF	SC_9002	0	79	white	Unk	0	0	0	0	
2_SU2C-PCF	SC_9006	0	77	white	10(5+5)	0	0	1	0	esophageal
2_SU2C-PCF	SC_9033	0	59	white	7(3+4)	0	0	1	0	colon
2_SU2C-PCF	SC_9040	0	70	Unk	7(4+3)	0	0	1	0	lung
2_SU2C-PCF	SC_9041	0	57	white	8(4+4)	0	0	1	0	colon
2_SU2C-PCF	SC_9042	0	73	white	7(4+3)	0	0	1	0	nos
2_SU2C-PCF	SC_9064	0	56	white	8(4+4)	0	0	0	0	
2_SU2C-PCF	SC_9053	0	56	white	8(5+3)	0	0	0	0	
2_SU2C-PCF	SC_9136	0	68	white	7(4+3)	0	0	1	0	bladder, breast
2_SU2C-PCF	SC_9087	0	56	Unk	7(3+4)	0	0	1	0	kidney
2_SU2C-PCF	SC_9088	0	68	Unk	7(4+3)	0	0	0	0	
2_SU2C-PCF	SC_9121	0	42	black	10(5+5)	0	0	0	0	
2_SU2C-PCF	SC_9123	0	64	black	9(4+5)	0	0	0	1	head and neck
2_SU2C-PCF	SC_9132	0	59	white	8(4+4)	0	1	1	0	cervical
2_SU2C-PCF	SC_9138	0	46	white	9(4+5)	0	0	0	1	colon
2_SU2C-PCF	SC_9126	0	Unk	white	Unk	Unk	Unk	Unk	Unk	unknown

2_SU2C-PCF	SM-4W2NB	0	Unk	white	7(4+3)	0	0	1	0	bladder
2_SU2C-PCF	SM-4W2NE	0	83	white	8(4+4)	1	0	1	0	thyroid
2_SU2C-PCF	SM-4W2NF	0	64	white	9(4+5)	0	0	1	0	colon
2_SU2C-PCF	SM-7LGU3	0	52	white	8(4+4)	0	0	1	0	fallopian tube
2_SU2C-PCF	SM-7LGU5	0	59	white	8(4+4)	0	1	1	1	lung, colon, colon, lung
2_SU2C-PCF	SM-7LGU6	0	58	asian	7(3+4)	0	0	0	0	
2_SU2C-PCF	SM-7LGU7	0	60	white	Unk	0	0	1	1	skin, breast and colon, ovary
2_SU2C-PCF	SM-7LGU9	0	74	white	9(5+4)	0	0	1	0	nos
2_SU2C-PCF	SM-7LGUB	0	79	white	9(4+5)	0	0	0	1	brain, breast
2_SU2C-PCF	SM-7LGUC	0	54	white	7(3+4)	1	0	0	1	ovary
2_SU2C-PCF	SM-7LGUD	0	58	white	7(3+4)	0	0	0	0	
2_SU2C-PCF	SM-7LGUE	0	61	white	7(3+4)	0	0	1	0	lymphoma
2_SU2C-PCF	SM-7LGUF	0	65	white	10(5+5)	1	0	0	1	leukemia
2_SU2C-PCF	SM-7LGUG	0	64	white	9(4+5)	0	0	0	0	
2_SU2C-PCF	SM-7LGUH	0	59	white	8(4+4)	0	0	0	0	
2_SU2C-PCF	SM-7LGUI	0	53	white	7(3+4)	0	0	1	0	lung, breast and colon and liver
2_SU2C-PCF	SM-7LGUJ	0	Unk	white	Unk	1	0	1	0	reproductive tract
2_SU2C-PCF	SM-7LGUL	0	53	white	9(4+5)	0	1	1	0	breast
2_SU2C-PCF	SM-7LGUM	0	63	white	9(5+4)	0	0	0	0	
2_SU2C-PCF	SM-7LGUO	0	84	white	10(5+5)	0	0	1	0	colon and gastric
2_SU2C-PCF	SM-7LGUP	0	Unk	Unk	Unk	0	1	1	0	laryngeal
2_SU2C-PCF	SM-7LGUQ	0	62	white	9(4+5)	0	0	1	0	leukemia
2_SU2C-PCF	MO_1021	0	55	white	9(5+4)	0	0	0	1	pancreatic
2_SU2C-PCF	MO_1105	0	59	white	10(5+5)	0	0	0	1	breast
2_SU2C-PCF	MO_1139	0	52	white	8(4+4)	0	0	1	1	breast, leukemia
2_SU2C-PCF	MO_1132	0	60	white	9(5+4)	1	0	0	0	
2_SU2C-PCF	TP_2069	0	63	Unk	9(4+5)	Unk	Unk	Unk	Unk	unknown
2_SU2C-PCF	MO_1420	0	60	white	9(4+5)	0	0	1	0	breast, brain, multiple myeloma
2_SU2C-PCF	MO_1421	0	54	white	9(4+5)	0	1	1	1	prostate, prostate, lymphoma, ovary, nos, esophageal
2_SU2C-PCF	MO_1447	0	57	white	9(4+5)	0	1	1	1	nos, breast, lung
2_SU2C-PCF	TP_2078	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	unknown
2_SU2C-PCF	TP_2079	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	unknown
2_SU2C-PCF	SC_9134	0	58	black	Unk	1	0	1	0	colon, throat
2_SU2C-PCF	SC_9142	0	56	black	9(4+5)	0	0	0	0	
2_SU2C-PCF	SM-42W9A	0	71	Unk	8(4+4)	1	0	0	0	
2_SU2C-PCF	SM-4JC6D	0	59	white	Unk	0	0	1	0	ovary
2_SU2C-PCF	SM-4JC6K	0	61	white	6(3+3)	0	0	1	0	esophageal
2_SU2C-PCF	SM-4JC6P	0	64	white	9(4+5)	1	0	0	0	
2_SU2C-PCF	SM-4JC6Z	0	64	white	7(4+3)	0	1	0	0	
2_SU2C-PCF	SM-6WZF3	0	59	white	9(4+5)	0	0	0	0	
2_SU2C-PCF	SM-6VZ7K	0	71	white	9-10(5+4-5)	0	0	1	0	lung, lung
2_SU2C-PCF	SM-6WZF8	0	56	white	9(5+4)	1	0	0	0	
2_SU2C-PCF	SM-6WZF9	0	69	white	8(4+4)	0	0	1	0	gastric
2_SU2C-PCF	SM-6WZFA	0	67	white	Unk	0	0	0	0	
2_SU2C-PCF	SM-6WZFB	0	76	white	10(5+5)	0	0	1	0	breast, lung
2_SU2C-PCF	SM-6WZF6	0	72	white	Unk	0	0	0	0	
2_SU2C-PCF	SM-581SL	0	62	white	10(5+5)	0	0	0	1	GU malignancy
2_SU2C-PCF	SM-5CQ5D	0	56	white	6(3+3)	1	0	0	1	nos
2_SU2C-PCF	SM-5CQ5F	0	66	white	9(4+5)	0	0	1	0	bladder, colon and pancreatic
2_SU2C-PCF	SM-5CQ5K	0	68	asian	9(5+4)	0	0	0	0	
2_SU2C-PCF	SM-5CQ4T	0	53	white	8(3+5)	Unk	Unk	Unk	Unk	unknown
2_SU2C-PCF	SM-5CQ4Y	0	59	white	9(4+5)	0	0	0	0	
2_SU2C-PCF	SM-5CQ4Z	0	59	white	7(4+3)	1	0	0	0	
2_SU2C-PCF	SM-5CQ55	0	56	white	7(3+4)	0	0	0	0	
2_SU2C-PCF	SM-6VZ7L	0	64	white	9(4+5)	0	0	0	0	
2_SU2C-PCF	SM-6VZ7N	0	68	white	6(3+3)	0	0	1	0	acoustic neuro-ma
2_SU2C-PCF	SM-6VZ7M	0	68	white	Unk	0	0	0	0	
2_SU2C-PCF	PM15	0	70	mixed	10(5+5)	0	0	1	1	colorectal, pancreatic and brain
2_SU2C-PCF	PM161	0	56	white	7(3+4)	0	0	0	0	
3_RMh	RM003	1	60	white	10	0	0	0	0	

3_RMH	RM169	1	61	white	Unk	Unk	Unk	Unk	Unk	
3_RMH	RM037	1	68	white	9	0	0	1	0	nos
3_RMH	RM047	1	61	white	9	0	0	0	0	
3_RMH	RM049	1	55	white	Unk	0	0	1	0	gastric
3_RMH	RM061	1	63	white	9	Unk	Unk	Unk	Unk	
3_RMH	RM072	1	53	white	7(4+3)	0	0	1	0	nos
3_RMH	RM077	1	63	white	Unk	0	0	1	1	breast, ovary
3_RMH	RM122	1	62	white	8	0	0	1	1	breast, ovary, lung
3_RMH	RM128	1	65	white	8	0	1	1	0	breast
3_RMH	RM129	1	64	white	8	0	0	0	1	breast
3_RMH	RM142	1	62	white	9	1	0	0	1	breast
3_RMH	RM152	1	53	white	9	1	0	1	0	breast
3_RMH	RM004	1	63	white	9	0	0	0	0	
3_RMH	RM005	1	73	white	9	0	0	1	1	nos
3_RMH	RM010	1	47	white	9	0	0	0	0	
3_RMH	RM124	0	73	white	9	1	0	1	0	other
3_RMH	RM014	0	51	white	6	0	0	1	0	breast
3_RMH	RM016	0	57	black	Unk	1	0	0	0	
3_RMH	RM018	0	58	white	6	Unk	Unk	Unk	Unk	
3_RMH	RM019	0	55	white	7(3+4)	Unk	Unk	Unk	Unk	
3_RMH	RM170	0	61	white	9	0	0	1	0	esophageal
3_RMH	RM021	0	75	white	Unk	0	0	1	0	pancreatic
3_RMH	RM022	0	62	white	7(3+4)	Unk	Unk	Unk	Unk	
3_RMH	RM171	0	69	white	Unk	Unk	Unk	Unk	Unk	
3_RMH	RM025	0	60	white	7(3+4)	0	0	0	0	
3_RMH	RM026	0	59	white	5	1	0	0	0	
3_RMH	RM028	0	64	white	8	0	0	0	0	
3_RMH	RM029	0	51	black	6	0	0	0	0	
3_RMH	RM030	0	61	white	7(4+3)	0	0	0	0	
3_RMH	RM100	0	64	white	9	Unk	Unk	Unk	Unk	
3_RMH	RM032	0	56	black	9	0	0	0	0	
3_RMH	RM033	0	59	white	7(4+3)	0	0	1	0	nos
3_RMH	RM034	0	61	white	8	0	0	0	0	
3_RMH	RM038	0	55	white	6	1	0	0	0	
3_RMH	RM040	0	62	white	7(4+3)	1	0	0	0	
3_RMH	RM041	0	64	white	9	0	1	1	0	nos
3_RMH	RM045	0	40	white	9	0	0	1	0	pancreatic
3_RMH	RM173	0	43	white	7(3+4)	0	0	1	1	lung, melanoma
3_RMH	RM046	0	67	white	8	0	0	1	0	lung, gastric
3_RMH	RM050	0	66	white	9	1	0	1	0	ovary
3_RMH	RM053	0	57	white	9	0	0	0	0	
3_RMH	RM056	0	69	white	9	0	0	0	1	breast
3_RMH	RM057	0	49	white	9	0	0	0	0	
3_RMH	RM059	0	66	white	8	0	1	0	0	
3_RMH	RM060	0	63	white	7(3+4)	0	0	0	0	
3_RMH	RM063	0	56	white	Unk	Unk	Unk	Unk	Unk	
3_RMH	RM064	0	66	white	9	0	0	0	0	
3_RMH	RM065	0	70	white	7(4+3)	0	0	1	1	breast, pancreatic
3_RMH	RM066	0	67	white	9	0	0	0	0	
3_RMH	RM068	0	56	white	7(4+3)	0	1	1	1	astrocytoma
3_RMH	RM177	0	54	black	8	Unk	Unk	Unk	Unk	
3_RMH	RM070	0	56	white	7(4+3)	0	0	0	0	
3_RMH	RM074	0	60	black	9	Unk	Unk	Unk	Unk	
3_RMH	RM075	0	68	white	8	0	0	1	0	breast
3_RMH	RM076	0	59	white	8	0	0	0	0	
3_RMH	RM078	0	51	white	7(4+3)	1	0	1	0	nos
3_RMH	RM080	0	70	white	8	1	0	1	0	breast
3_RMH	RM081	0	48	white	8	0	0	1	0	nos
3_RMH	RM178	0	62	black	Unk	0	0	1	0	leukemia
3_RMH	RM084	0	67	white	9	0	0	1	0	nos
3_RMH	RM200	0	61	white	7(3+4)	Unk	Unk	Unk	Unk	
3_RMH	RM087	0	75	white	9	0	0	0	0	
3_RMH	RM088	0	61	white	Unk	Unk	Unk	Unk	Unk	
3_RMH	RM089	0	70	white	9	Unk	Unk	Unk	Unk	
3_RMH	RM090	0	49	white	6	0	0	0	0	
3_RMH	RM092	0	73	white	6	Unk	Unk	Unk	Unk	
3_RMH	RM093	0	48	white	7(4+3)	0	1	0	1	breast

3_RMH	RM094	0	68	white	9	0	0	1	0	nos
3_RMH	RM096	0	67	white	8	0	0	1	0	nos
3_RMH	RM097	0	60	white	9	0	0	1	1	breast
3_RMH	RM098	0	59	white	Unk	Unk	Unk	Unk	Unk	
3_RMH	RM099	0	57	white	6	0	0	0	0	
3_RMH	RM102	0	70	white	7(3+4)	0	0	0	0	
3_RMH	RM103	0	64	white	7(4+3)	Unk	Unk	Unk	Unk	
3_RMH	RM104	0	67	white	10	0	0	0	0	
3_RMH	RM105	0	69	white	9	0	0	0	0	
3_RMH	RM106	0	67	white	9	0	0	0	0	
3_RMH	RM107	0	53	white	Unk	Unk	Unk	Unk	Unk	
3_RMH	RM108	0	67	white	9	0	1	1	0	pancreatic
3_RMH	RM109	0	67	white	8	Unk	Unk	Unk	Unk	
3_RMH	RM110	0	66	white	Unk	1	0	1	0	nos
3_RMH	RM111	0	55	white	7(4+3)	0	0	1	0	breast
3_RMH	RM112	0	73	white	Unk	0	0	1	0	nos
3_RMH	RM113	0	59	white	9	1	0	0	0	
3_RMH	RM115	0	62	white	Unk	0	0	1	0	nos
3_RMH	RM116	0	75	white	8	1	0	0	0	
3_RMH	RM118	0	54	white	7(3+4)	1	0	0	1	renal
3_RMH	RM119	0	58	white	9	0	0	0	0	
3_RMH	RM120	0	73	white	8	0	0	1	0	nos
3_RMH	RM121	0	54	white	6	0	0	0	0	
3_RMH	RM123	0	73	white	9	0	0	0	0	
3_RMH	RM125	0	61	white	Unk	0	0	1	0	
3_RMH	RM126	0	69	black	9	0	0	0	0	
3_RMH	RM127	0	60	white	9	1	0	0	0	
3_RMH	RM130	0	72	white	Unk	0	0	1	0	breast
3_RMH	RM131	0	60	black	6	0	0	0	0	
3_RMH	RM135	0	53	black	9	0	0	1	0	nos
3_RMH	RM136	0	57	white	8	0	0	1	0	nos
3_RMH	RM137	0	58	white	Unk	1	0	0	0	
3_RMH	RM138	0	73	white	9	0	0	1	0	nos
3_RMH	RM139	0	50	white	Unk	1	1	1	0	pancreatic
3_RMH	RM300	0	80	white	8	Unk	Unk	Unk	Unk	
3_RMH	RM141	0	68	white	9	0	0	1	0	breast
3_RMH	RM143	0	68	white	10	0	0	1	1	breast, pancreatic
3_RMH	RM144	0	65	white	9	0	0	1	1	lung, pancreatic
3_RMH	RM145	0	54	white	9	0	0	1	1	breast, nos
3_RMH	RM146	0	67	white	10	0	0	1	0	nos
3_RMH	RM147	0	62	white	9	0	0	1	0	nos
3_RMH	RM148	0	59	white	Unk	0	0	1	0	nos
3_RMH	RM149	0	56	asian	6	0	0	1	0	ovary
3_RMH	RM150	0	62	white	8	0	0	0	0	
3_RMH	RM151	0	64	white	7(3+4)	0	0	1	0	breast
3_RMH	RM153	0	59	white	8	0	0	1	0	nos
3_RMH	RM154	0	64	white	9	0	0	1	0	nos
3_RMH	RM155	0	61	white	10	0	0	1	0	nos
3_RMH	RM156	0	68	white	10	0	0	0	0	
3_RMH	RM157	0	50	white	8	0	0	1	0	breast
3_RMH	RM158	0	74	white	Unk	0	0	1	0	nos
3_RMH	RM159	0	62	white	9	0	0	1	1	breast, ovary
3_RMH	RM160	0	65	black	9	0	0	0	0	
3_RMH	RM162	0	53	white	9	0	0	1	0	breast
3_RMH	RM164	0	65	white	9	0	0	1	0	nos
3_RMH	RM165	0	68	white	8	0	0	1	0	nos
3_RMH	RM166	0	57	white	7(3+4)	0	0	1	0	breast
3_RMH	RM167	0	52	black	Unk	0	0	1	0	breast
3_RMH	RM006	0	61	white	9	1	0	0	0	
3_RMH	RM007	0	63	white	8	0	0	0	0	
3_RMH	RM008	0	68	white	8	0	0	0	0	
3_RMH	RM009	0	63	white	7(4+3)	0	0	0	1	breast
3_RMH	RM011	0	57	white	8	0	0	0	0	
4_UW	98-372	1	66	asian	6(2+4)	0	0	1	0	brain, uterine
4_UW	01-002	1	43	white	9(4+5)	0	0	1	0	cervical, melanoma
4_UW	05-011	1	73	white	7(3+4)	0	0	0	1	nos

4_UW	06-134	1	67	asian	9(5+4)	0	0	1	1	nasopharyngeal, esophgeal
4_UW	13-117	1	56	white	9(4+5)	0	0	1	0	nos
4_UW	99-091	1	73	Unk	9(4+5)	Unk	Unk	Unk	Unk	unknown
4_UW	07-097	1	63	white	8(4+4)	0	0	1	1	colon, colon
4_UW	09-012	1	59	white	9(4+5)	0	0	1	1	Hodgkin, lung, nos
4_UW	00-140	0	57	white	9(4+5)	0	0	0	1	gastric cancer in uncles
4_UW	02-190	0	61	white	9(unk)	0	0	1	0	lymphoma, colon, lung
4_UW	06-127	0	75	white	7(unk)	Unk	Unk	Unk	Unk	unknown
4_UW	06-131	0	64	white	7(4+3)	1	0	1	0	lung, nos
4_UW	07-042	0	54	white	9(5+4)	Unk	Unk	Unk	Unk	unknown
4_UW	98-328	0	52	white	unkown	Unk	Unk	Unk	Unk	unknown
4_UW	98-362	0	70	white	unkown	Unk	Unk	Unk	Unk	unknown
4_UW	98-380	0	76	white	6(3+3)	0	0	0	0	
4_UW	99-064	0	49	mixed	unkown	0	0	0	1	gastric
4_UW	99-069	0	55	white	9(9)	0	0	1	0	gastric
4_UW	99-090	0	Unk	Unk	unkown	Unk	Unk	Unk	Unk	unknown
4_UW	00-169	0	63	white	unkown	0	0	0	0	
4_UW	01-046	0	60	white	8(3+5)	0	0	0	0	
4_UW	01-087	0	64	white	5(unk)	Unk	Unk	Unk	Unk	unknown
4_UW	01-095	0	62	white	7(unk)	Unk	Unk	Unk	Unk	unknown
4_UW	01-120	0	53	white	7(unk)	Unk	Unk	Unk	Unk	unknown
4_UW	02-083	0	59	white	unkown	0	0	0	0	
4_UW	03-026	0	63	white	8(unk)	1	0	0	0	
4_UW	03-027	0	70	mixed	8(4+4)	0	0	0	0	
4_UW	03-139	0	74	white	7(4+3)	0	0	0	0	unknown
4_UW	03-081	0	68	white	5(2+3)	Unk	Unk	Unk	Unk	unknown
4_UW	03-082	0	59	white	9(5+4)	0	0	1	0	colon, brain
4_UW	03-130	0	63	white	8(3+5)	0	0	1	0	leukemia, thryoid
4_UW	03-163	0	53	white	9(4+5)	0	0	1	0	bladder
4_UW	03-192	0	62	white	7(unk)	0	0	0	0	
4_UW	04-101	0	78	white	9(4+5)	1	0	1	0	lung
4_UW	04-108	0	57	white	7(3+4)	Unk	Unk	Unk	Unk	unknown
4_UW	04-112	0	58	white	9(4+5)	0	0	1	0	lung
4_UW	04-149	0	79	white	unkown	0	0	0	0	
4_UW	05-092	0	75	white	10(5+5)	0	0	0	1	head & neck, colon
4_UW	05-116	0	63	white	8(4+4)	1	0	0	0	
4_UW	05-123	0	72	white	9(4+5)	0	0	1	0	nos
4_UW	05-144	0	59	white	9(4+5)	0	0	1	0	head & neck
4_UW	05-165	0	67	white	7(3+4)	Unk	Unk	Unk	Unk	unknown
4_UW	05-187	0	58	mixed	9(5+4)	0	0	1	0	soft tissue sarcoma
4_UW	05-214	0	62	white	6(3+3)	0	0	0	0	
4_UW	05-217	0	64	white	6(3+3)	0	0	0	0	
4_UW	05-221	0	63	white	9(4+5)	1	0	1	0	breast, breast
4_UW	06-047	0	62	white	7(4+3)	0	0	0	0	
4_UW	06-081	0	66	mixed	8(4+4)	0	0	0	1	ovary, bladder, breast
4_UW	07-062	0	70	mixed	6(3+3)	Unk	Unk	Unk	Unk	
4_UW	08-006	0	60	white	7(4+3)	1	0	1	0	melanoma, intestinal
4_UW	08-016	0	57	white	8(4+4)	Unk	Unk	Unk	Unk	unknown
4_UW	08-020	0	65	white	7(3+4)	1	0	0	0	
4_UW	08-037	0	60	white	7(4+3)	1	0	1	0	breast, lymphoma
4_UW	08-093	0	60	white	9(5+4)	0	0	0	1	renal cell, colon
4_UW	10-013	0	51	white	7(4+3)	0	0	1	0	melanoma
4_UW	10-056	0	63	white	8(4+4)	0	1	1	0	Hodgkin, breast, lung, nos
4_UW	12-005	0	71	white	9(4+5)	0	0	1	0	colon
4_UW	12-011	0	59	Unk	unkown	1	0	0	0	
4_UW	12-021	0	73	white	8(4+4)	1	0	0	0	
4_UW	13-012	0	69	white	7(4+3)	0	0	1	0	ovary
4_UW	13-042	0	43	white	9(4+5)	0	0	1	1	colon, gastric, leukemia
4_UW	13-084	0	60	white	9(4+5)	Unk	Unk	Unk	Unk	unknown
4_UW	13-099	0	68	white	8(4+4)	0	0	1	0	breast & uterine
4_UW	13-101	0	57	white	7(3+4)	0	0	0	0	

4_UW	13-104	0	70	white	6(3+3)	0	0	1	0	breast
4_UW	14-031	0	77	white	10(5+5)	1	0	1	0	colon, brain
4_UW	14-039	0	66	white	9(4+5)	0	0	0	0	
4_UW	14-043	0	75	white	9(4+5)	Unk	Unk	Unk	Unk	unknown
4_UW	14-053	0	51	white	7(4+3)	0	0	0	1	colon
4_UW	14-077	0	55	white	9(4+3+5)	0	0	0	1	lymphoma, lymphoma
4_UW	98-343	0	60	white	unknown	Unk	Unk	Unk	Unk	unknown
4_UW	98-388	0	43	white	6(3+3)	Unk	Unk	Unk	Unk	unknown
4_UW	98-500	0	47	white	unknown	Unk	Unk	Unk	Unk	unknown
4_UW	99-033	0	63	Unk	7(4+3)	0	0	0	1	colon
4_UW	00-147	0	48	white	8(5+3)	0	1	1	0	leukemia
4_UW	01-063	0	61	white	unknown	Unk	Unk	Unk	Unk	unknown
4_UW	01-181	0	Unk	Unk	unknown	Unk	Unk	Unk	Unk	unknown
4_UW	02-065	0	63	white	7(3+4)	0	0	1	0	colon, lymphoma
4_UW	02-076	0	75	white	10(5+5)	0	0	1	1	colon, uterine, gastric
4_UW	02-142	0	66	white	unknown	1	0	0	0	
4_UW	03-077	0	62	white	9(4+5)	1	0	1	0	esophageal
4_UW	04-050	0	74	mixed	7(4+3)	0	0	1	0	colon
4_UW	05-148	0	65	white	9(4+5)	0	0	0	0	unknown
4_UW	06-046	0	62	white	unknown	0	0	0	0	
4_UW	06-064	0	93	mixed	9(4+5)	0	0	1	0	breast, ovary
4_UW	07-044	0	60	white	7(3+4)	1	1	0	0	
4_UW	07-050	0	73	mixed	10(5+5)	0	0	0	0	
4_UW	07-083	0	65	white	6(3+3)	0	0	0	0	
4_UW	10-039	0	72	white	8(3+5)	Unk	Unk	Unk	Unk	unknown
4_UW	10-068	0	62	mixed	7(4+3)	0	0	1	1	breast & gastric, nos
4_UW	13-122	0	63	white	9(4+5)	0	0	1	1	lung, breast
5_WC	PM12	1	67	white	9(4+5)	0	0	1	0	
5_WC	PM156	1	61	Unk	Unk	Unk	Unk	Unk	Unk	
5_WC	PM183	1	59	hispanic	7(4+3)	0	0	0	0	
5_WC	PM195	1	69	white	5 (3+2)	0	0	0	0	
5_WC	PM258	1	59	hispanic	7(4+3)	1	0	1	1	breast, nos x3
5_WC	PM365	1	76	white	Unk	1	0	1	0	prostate and pancreatic
5_WC	PM63	1	55	black	8(4+4)	0	0	0	0	
5_WC	PM169	0	64	white	9(5+4)	1	0	0	1	breast, nos x 3
5_WC	PM6	0	55	white	7(3+4)	1	0	0	1	
5_WC	PM0	0	54	hispanic	7(unk)	0	0	0	0	
5_WC	PM1	0	71	hispanic	Unk	0	0	0	0	
5_WC	PM10	0	86	white	Unk	0	0	1	0	esophageal
5_WC	PM11	0	81	asian	10(5+5)	0	0	0	0	
5_WC	PM119	0	60	white	8(4+4)	1	0	0	0	
5_WC	PM121	0	59	white	9(4+5)	1	0	1	0	breast
5_WC	PM124	0	80	asian	9(4+5)	0	0	0	0	
5_WC	PM131	0	59	white	Unk	0	0	1	0	gastric
5_WC	PM139	0	73	white	9(4+5)	0	0	0	0	
5_WC	PM14	0	63	asian	9(5+4)	0	0	1	0	nos
5_WC	PM142	0	75	white	Unk	0	0	0	0	
5_WC	PM154	0	79	white	Unk	0	0	1	0	breast and colon, lung
5_WC	PM155	0	86	white	Unk	0	0	0	0	
5_WC	PM158	0	55	white	8(4+4)	0	0	0	1	ovary
5_WC	PM159	0	63	hispanic	8(4+4)	0	0	0	0	
5_WC	PM160	0	72	white	Unk	0	0	1	0	ovary, lung
5_WC	PM162	0	65	hispanic	9(5+4)	0	0	0	0	
5_WC	PM163	0	65	black,	9(4+5)	0	0	1	0	gallbladder
5_WC	PM164	0	77	white	9(4+5)	0	0	1	0	nos
5_WC	PM170	0	67	white	8(4+4)	1	1	0	0	
5_WC	PM172	0	63	white	8(4+4)	0	0	0	0	
5_WC	PM185	0	59	black	8(4+4)	0	0	0	0	
5_WC	PM187	0	53	asian	7(4+3)	1	1	0	0	
5_WC	PM189	0	80	white	9(4+5)	0	0	0	0	
5_WC	PM192	0	67	white	Unk	0	0	0	0	
5_WC	PM199	0	66	Unk	Unk	Unk	Unk	Unk	Unk	
5_WC	PM2	0	73	white	8(4+4)	0	0	0	0	
5_WC	PM201	0	51	white	8(unk)	1	0	1	1	breast, breast, breast

5_WC	PM207	0	68	white	10(5+5)	Unk	Unk	Unk	Unk	
5_WC	PM213	0	62	white	9(5+4)	1	0	0	0	
5_WC	PM218	0	60	white	7(4+3)	0	0	0	0	
5_WC	PM219	0	62	black	7(4+3 with tertiary 5)	0	0	0	0	
5_WC	PM221	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	
5_WC	PM223	0	52	black	Unk	Unk	Unk	Unk	Unk	
5_WC	PM243	0	77	white	9(4+5)	0	0	0	0	breast
5_WC	PM247	0	86	white	8(4+4)	0	0	0	0	breast
5_WC	PM252	0	66	white	7(4+3)	0	0	0	0	
5_WC	PM253	0	68	white	7(3+4)	1	0	0	0	
5_WC	PM261	0	67	hispanic	7(4+3)	1	0	0	0	
5_WC	PM3	0	78	white	Unk	0	0	0	0	
5_WC	PM322	0	58	black	9(4+5)	1	0	0	0	
5_WC	PM330	0	70	Unk	7(3+4)	1	0	0	0	
5_WC	PM335	0	43	hispanic	7(3+4)	0	0	1	0	breast, colon
5_WC	PM340	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	
5_WC	PM341	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	
5_WC	PM342	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	
5_WC	PM360	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	
5_WC	PM366	0	50	white	6(3+3)	0	0	1	0	colon
5_WC	PM376	0	81	asian	Unk	0	0	0	0	
5_WC	PM4	0	59	white	5+4=9 Bone and LN mets at dx	0	0	0	0	
5_WC	PM5	0	48	white	3+2=5	0	0	0	0	
5_WC	PM59	0	Unk	Unk	Unk	Unk	Unk	Unk	Unk	
5_WC	PM7	0	61	white	9(5+4)	0	0	0	0	
5_WC	PM73	0	86	white	9(5+4)	0	0	1	0	breast and lung
5_WC	PM78	0	76	white	Unk	0	0	0	0	
5_WC	PM80	0	62	white	6 (3+3)	0	0	0	0	
5_WC	PM89	0	50	white	9(4+5)	0	0	1	0	breast
5_WC	PM9	0	64	white	9(5+4)	0	0	1	0	breast
5_WC	PM90	0	59	white	7(4+3)	0	0	0	0	
5_WC	PM91	0	54	hispanic	10(5+5)	0	0	0	0	
6_UM	WA_29	1	67	white	8	Unk	Unk	Unk	Unk	
6_UM	WA_24	1	72	white	8	0	0	0	0	
6_UM	WA_46	1	66	white	9	Unk	Unk	Unk	Unk	
6_UM	WA_40	1	72	white	10	0	0	1	0	ovary, uterine
6_UM	WA_7	0	61	black	9	0	0	1	0	breast
6_UM	WA_35	0	61	black	9	0	0	0	1	colon
6_UM	WA_33	0	48	asian	10	0	0	1	0	multiple myeloma
6_UM	WA_23	0	65	white	6	0	0	1	0	head and neck
6_UM	WA_22	0	61	white	8	Unk	Unk	Unk	Unk	unknown
6_UM	WA_11	0	64	white	8	0	0	0	0	
6_UM	WA_48	0	69	white	8	Unk	Unk	Unk	Unk	unknown
6_UM	WA_43	0	47	white	9	0	0	0	1	lung
6_UM	WA_31	0	54	white	9	0	0	0	1	breast
6_UM	WA_20	0	59	white	9	0	0	0	0	
6_UM	WA_37	0	60	white	9	0	0	1	0	breast
6_UM	WA_38	0	63	white	9	1	0	1	0	breast, colon, ovary
6_UM	WA_53	0	64	white	9	0	0	1	0	uterine
6_UM	WA_30	0	67	white	9	0	0	0	0	
6_UM	WA_55	0	68	white	9	0	0	0	0	
6_UM	WA_13	0	60	white	10	0	0	1	0	lung
6_UM	WA_41	0	61	white	7(3+4)	0	0	0	0	
6_UM	WA_51	0	54	white	7(4+3)	0	0	0	0	
6_UM	WA_49	0	60	white	7(4+3)	0	0	1	0	breast
6_UM	WA_54	0	60	white	7(4+3)	0	0	1	0	lung
6_UM	WA_47	0	61	white	7(4+3)	0	0	1	0	
6_UM	WA_27	0	66	white	7(unk)	1	1	0	0	
6_UM	WA_3	0	51	white	Unk	0	0	0	0	
6_UM	WA_39	0	56	white	Unk	Unk	Unk	Unk	Unk	unknown
6_UM	WA_14	0	60	white	Unk	Unk	Unk	Unk	Unk	unknown
6_UM	WA_25	0	62	white	Unk	0	0	1	0	lung
6_UM	WA_50	0	62	white	Unk	0	0	0	0	
6_UM	WA_26	0	63	white	Unk	0	0	1	0	breast
6_UM	WA_28	0	65	white	Unk	0	0	0	0	

6_UM	WA_52	0	66	white	Unk	0	0	1	0	breast, brain, oropharyngeal
6_UM	WA_16	0	67	white	Unk	0	0	1	0	nos
6_UM	WA_32	0	69	white	Unk	1	0	1	0	rectal
6_UM	WA_15	0	72	white	Unk	Unk	Unk	Unk	Unk	unknown
6_UM	WA_18	0	49	Unk	5	0	0	1	0	throat, nos
6_UM	WA_12	0	74	Unk	10	0	0	1	0	multiple myeloma
6_UM	WA_42	0	56	Unk	7(3+4)	1	0	0	0	
6_UM	WA_17	0	71	Unk	7(unk)	0	0	1	0	lung
6_UM	WA_10	0	72	Unk	Unk	Unk	Unk	Unk	Unk	unknown
6_UM	WA_19	0	75	Unk	Unk	0	0	1	0	breast
7_MSK	MSK025	1	65	Unk	8(4+4)	0	0	0	1	CLL, lung, nos
7_MSK	MSK011	1	49	white	7(3+4)	0	0	1	0	gastric, breast and ovary
7_MSK	MSK021	1	54	white	7(3+4)	1	0	1	0	prostate and colon, breast
7_MSK	MSK005	1	51	white	7(4+3)	0	0	1	1	ovary, ovary, colon and breast
7_MSK	MSK009	1	58	white	7(4+3)	0	0	1	0	lung
7_MSK	MSK003	1	62	white	7(4+3)	0	0	1	1	gastric, pancreatic, breast, brain, colon
7_MSK	MSK017	1	66	white	7(4+3)	0	0	1	1	colon, pancreatic, breast, breast
7_MSK	MSK010	1	58	white	8(4+4)	1	0	1	1	colon and prostate and melanoma, non-hodgkin lymphoma, colon
7_MSK	MSK008	1	59	white	8(4+4)	1	1	1	0	breast
7_MSK	MSK012	1	64	white	8(4+4)	0	0	1	0	ovary and leukemia, liposarcoma
7_MSK	MSK027	1	64	white	8(4+4)	0	1	1	0	colon
7_MSK	MSK020	1	68	white	8(4+4)	0	0	0	1	nos
7_MSK	MSK018	1	48	white	8(4+4)	0	0	0	1	pancreatic
7_MSK	MSK015	1	57	white	9(4+5)	0	0	1	0	adrenal cortical carcinoma, breast, GE junction
7_MSK	MSK013	1	58	white	9(4+5)	1	0	1	1	colon, gastric
7_MSK	MSK004	1	59	white	9(4+5)	1	0	1	1	prostate and pancreatic, breast
7_MSK	MSK007	1	61	white	9(4+5)	0	0	1	1	ovary, melanoma, leukemia, mesothelioma
7_MSK	MSK016	1	65	white	9(4+5)	0	0	1	1	uterine, pancreatic
7_MSK	MSK026	1	66	white	9(4+5)	0	0	1	1	breast and breast
7_MSK	MSK006	1	56	white	9(5+4)	0	0	0	0	
7_MSK	MSK014	1	61	white	9(5+4)	0	0	1	1	esophageal and gastric, colon
7_MSK	MSK019	1	64	white	9(5+4)	0	0	1	0	leiomyosarcoma
7_MSK	MSK022	1	75	white	9(5+4)	0	0	1	1	ovary, lung, colon, gastric
7_MSK	MSK118	0	55	asian	7(4+3)	0	0	1	0	gastric
7_MSK	MSK036	0	64	black	7(3+4)	1	0	1	0	prostate, rectal
7_MSK	MSK059	0	60	black	7(4+3)	0	0	0	0	
7_MSK	MSK061	0	55	black	8(3+5)	0	0	0	0	
7_MSK	MSK121	0	58	black	8(4+4)	0	0	1	0	breast
7_MSK	MSK049	0	55	black	9(5+4)	1	0	1	1	prostate, colon, lymphoma
7_MSK	MSK055	0	59	Unk	7(4+3)	0	0	1	0	lung
7_MSK	MSK054	0	64	Unk	8(4+4)	0	0	0	0	
7_MSK	MSK058	0	48	Unk	9(4+5)	1	1	0	1	prostate, prostate, lung
7_MSK	MSK099	0	57	Unk	9(4+5)	0	0	1	0	esophageal
7_MSK	MSK097	0	58	Unk	9(4+5)	0	0	1	1	vaginal, gastric

7_MSK	MSK075	0	51	white	4(2+2)	1	1	1	1	prostate, prostate, breast, leukemia
7_MSK	MSK039	0	50	white	6(3+3)	0	0	1	0	thyroid
7_MSK	MSK023	0	58	white	6(3+3)	0	1	0	1	brain tumor
7_MSK	MSK092	0	75	white	6(3+3)	1	1	1	0	brain tumor
7_MSK	MSK045	0	52	white	7(3+4)	0	0	1	0	melanoma, colon
7_MSK	MSK110	0	52	white	7(3+4)	1	0	0	0	prostate
7_MSK	MSK037	0	53	white	7(3+4)	0	0	0	1	breast
7_MSK	MSK111	0	54	white	7(3+4)	0	0	1	0	leukemia
7_MSK	MSK033	0	59	white	7(3+4)	0	1	0	0	
7_MSK	MSK116	0	60	white	7(3+4)	1	0	1	0	lung
7_MSK	MSK043	0	61	white	7(3+4)	0	0	1	0	CLL
7_MSK	MSK056	0	61	white	7(3+4)	1	0	0	0	
7_MSK	MSK074	0	67	white	7(3+4)	0	0	0	0	
7_MSK	MSK078	0	68	white	7(3+4)	1	1	0	0	prostate, prostate, prostate
7_MSK	MSK093	0	43	white	7(4+3)	1	0	0	0	
7_MSK	MSK104	0	45	white	7(4+3)	1	1	0	1	prostate and leukemia, colon
7_MSK	MSK024	0	47	white	7(4+3)	1	0	1	0	prostate and brian and lung and thyroid, thyroid and breast
7_MSK	MSK119	0	47	white	7(4+3)	0	0	1	0	pancreatic, leukemia
7_MSK	MSK050	0	50	white	7(4+3)	0	1	0	1	GI cancer
7_MSK	MSK073	0	55	white	7(4+3)	1	0	1	0	ovary
7_MSK	MSK081	0	56	white	7(4+3)	0	0	1	0	lymphoma and gastric cancer
7_MSK	MSK089	0	57	white	7(4+3)	1	0	1	0	breast
7_MSK	MSK042	0	58	white	7(4+3)	0	0	1	0	colon
7_MSK	MSK079	0	62	white	7(4+3)	0	0	1	0	breast and ovary, uterine
7_MSK	MSK117	0	62	white	7(4+3)	0	0	0	0	
7_MSK	MSK077	0	64	white	7(4+3)	0	0	1	0	colon
7_MSK	MSK088	0	64	white	7(4+3)	1	0	1	1	breast, breast
7_MSK	MSK031	0	65	white	7(4+3)	0	0	1	0	lung, colon, myeloma
7_MSK	MSK035	0	66	white	7(4+3)	1	0	0	1	colon
7_MSK	MSK120	0	67	white	7(4+3)	0	0	1	1	ovary, colon, colon
7_MSK	MSK047	0	68	white	7(4+3)	0	0	1	0	ovary, nos
7_MSK	MSK095	0	49	white	8(4+4)	1	1	0	0	
7_MSK	MSK112	0	50	white	8(4+4)	0	0	1	0	lung, hodgkin
7_MSK	MSK076	0	52	white	8(4+4)	0	0	1	0	colon,gastric, hodgkin
7_MSK	MSK101	0	52	white	8(4+4)	0	0	1	0	lymphoma
7_MSK	MSK100	0	56	white	8(4+4)	0	0	1	0	lung, breast
7_MSK	MSK040	0	57	white	8(4+4)	0	0	0	0	
7_MSK	MSK041	0	58	white	8(4+4)	0	0	1	0	lung, melanoma, gyn nos, head & neck, nos
7_MSK	MSK083	0	58	white	8(4+4)	0	0	0	0	
7_MSK	MSK060	0	59	white	8(4+4)	0	0	1	1	breast and cervical and lung, colon, melanoma, breas
7_MSK	MSK053	0	62	white	8(4+4)	1	0	1	0	prostate and bladder,
7_MSK	MSK082	0	62	white	8(4+4)	0	0	1	1	lung, lung
7_MSK	MSK115	0	62	white	8(4+4)	0	0	0	1	lymphoma
7_MSK	MSK096	0	66	white	8(4+4)	0	0	0	0	
7_MSK	MSK038	0	67	white	8(4+4)	0	0	0	0	
7_MSK	MSK094	0	68	white	8(4+4)	0	0	1	0	melanoma
7_MSK	MSK063	0	69	white	8(4+4)	0	0	1	0	head & neck
7_MSK	MSK087	0	69	white	8(4+4)	0	0	1	0	colon, skin, breast
7_MSK	MSK102	0	72	white	8(4+4)	0	0	1	1	colon, non-hodgkin lymphoma, nos
7_MSK	MSK071	0	75	white	8(4+4)	0	0	1	0	colon, colon, nos
7_MSK	MSK108	0	47	white	9(4+5)	0	0	0	0	

7_MSK	MSK002	0	48	white	9(4+5)	0	0	1	0	sarcoma
7_MSK	MSK080	0	49	white	9(4+5)	0	0	0	0	
7_MSK	MSK034	0	50	white	9(4+5)	0	1	1	0	prostate,prostate, laryngeal
7_MSK	MSK070	0	50	white	9(4+5)	0	0	1	0	brain
7_MSK	MSK091	0	50	white	9(4+5)	0	0	1	1	melanoma, breast, childhood leukemia
7_MSK	MSK030	0	51	white	9(4+5)	1	0	1	0	prostate and colon
7_MSK	MSK069	0	51	white	9(4+5)	1	0	1	0	ovary
7_MSK	MSK098	0	51	white	9(4+5)	1	0	1	0	breast
7_MSK	MSK028	0	54	white	9(4+5)	1	0	0	1	nos
7_MSK	MSK106	0	54	white	9(4+5)	0	0	1	0	melanoma and breast
7_MSK	MSK067	0	55	white	9(4+5)	0	0	1	0	lung
7_MSK	MSK066	0	57	white	9(4+5)	0	0	1	0	colon
7_MSK	MSK109	0	58	white	9(4+5)	0	0	0	1	breast
7_MSK	MSK048	0	59	white	9(4+5)	0	0	1	1	breast, lung, lung
7_MSK	MSK052	0	59	white	9(4+5)	0	0	0	0	
7_MSK	MSK084	0	59	white	9(4+5)	0	0	1	0	skin, colon, lung and bladder, colon, brain
7_MSK	MSK086	0	59	white	9(4+5)	0	0	1	1	melanoma, nos
7_MSK	MSK122	0	59	white	9(4+5)	0	0	0	0	
7_MSK	MSK124	0	59	white	9(4+5)	1	0	1	0	prostate and renal, pancreatic, CLL
7_MSK	MSK114	0	62	white	9(4+5)	1	0	1	0	esophageal and gastric, colon
7_MSK	MSK065	0	63	white	9(4+5)	0	0	1	0	bone
7_MSK	MSK085	0	63	white	9(4+5)	0	1	0	1	breast, nos
7_MSK	MSK125	0	64	white	9(4+5)	1	0	0	0	nos
7_MSK	MSK105	0	65	white	9(4+5)	1	0	0	1	pancreatic, lym- phoma, lung, lymphoma
7_MSK	MSK051	0	69	white	9(4+5)	0	0	0	0	
7_MSK	MSK029	0	71	white	9(4+5)	1	0	1	0	bladder
7_MSK	MSK068	0	71	white	9(4+5)	0	0	1	0	melanoma
7_MSK	MSK123	0	71	white	9(4+5)	0	0	0	0	
7_MSK	MSK090	0	74	white	9(4+5)	0	0	0	0	
7_MSK	MSK044	0	75	white	9(4+5)	0	0	1	0	colon
7_MSK	MSK062	0	54	white	9(5+4)	0	0	0	0	
7_MSK	MSK057	0	59	white	9(5+4)	0	0	1	1	breast,throat, lung, gastric, gastric
7_MSK	MSK064	0	62	white	9(5+4)	0	0	0	0	
7_MSK	MSK103	0	65	white	9(5+4)	1	0	0	0	
7_MSK	MSK046	0	66	white	9(5+4)	0	0	1	0	squamous cell
7_MSK	MSK107	0	67	white	9(5+4)	0	0	1	0	breast, male breast
7_MSK	MSK113	0	67	white	9(5+4)	1	0	1	0	prostate and esophageal, gyn nos
7_MSK	MSK072	0	61	white	Unk	0	0	1	1	lung, lung, lung, lung
7_MSK	MSK032	0	72	white	Unk	0	0	1	1	bladder, colon, leukemia, leuke- mia
TCGA	tcga-2a-a8vo	1		white	6(3+3)					
TCGA	tcga-hc-8259	1		black	6(3+3)					
TCGA	tcga-ej-5511	1		black	7(3+4)					
TCGA	tcga-ej-a8fn	1		white	7(3+4)					
TCGA	tcga-hc-7231	1		white	7(3+4)					
TCGA	tcga-hc-8256	1		black	7(3+4)					
TCGA	tcga-hc-7745	1		white	7(4+3)					
TCGA	tcga-hc-8216	1		white	7(4+3)					
TCGA	tcga-j9-a8cp	1		white	7(4+3)					
TCGA	tcga-m7-a71z	1		white	7(4+3)					
TCGA	tcga-xk-aaja	1		hispanic	7(4+3)					
TCGA	tcga-ch-5752	1		white	8(4+4)					
TCGA	tcga-g9-7521	1		white	8(4+4)					
TCGA	tcga-v1-a9zk	1		white	8(4+4)					

TCGA	tcga-v1-a9zr	1	white	8(4+4)
TCGA	tcga-ch-5753	1	white	9(4+5)
TCGA	tcga-ch-5792	1	white	9(4+5)
TCGA	tcga-yl-a8si	1	white	9(4+5)
TCGA	tcga-ch-5769	1	white	9(5+4)
TCGA	tcga-hc-a4zv	1	black	9(5+4)
TCGA	tcga-v1-a9z8	1	white	9(5+4)
TCGA	tcga-xk-aaiw	1	white	9(5+4)
TCGA	tcga-zg-a9nd	1	white	9(5+4)
TCGA	tcga-ch-5768	0	white	6(2+4)
TCGA	tcga-2a-a8vl	0	white	6(3+3)
TCGA	tcga-2a-a8vv	0	Unk	6(3+3)
TCGA	tcga-2a-aayo	0	white	6(3+3)
TCGA	tcga-2a-aayu	0	white	6(3+3)
TCGA	tcga-ch-5738	0	white	6(3+3)
TCGA	tcga-ej-5517	0	white	6(3+3)
TCGA	tcga-ej-7321	0	black	6(3+3)
TCGA	tcga-ej-a65m	0	black	6(3+3)
TCGA	tcga-ej-ab20	0	Unk	6(3+3)
TCGA	tcga-ej-ab27	0	white	6(3+3)
TCGA	tcga-fc-a8o0	0	white	6(3+3)
TCGA	tcga-g9-6342	0	white	6(3+3)
TCGA	tcga-g9-6347	0	Unk	6(3+3)
TCGA	tcga-g9-6371	0	white	6(3+3)
TCGA	tcga-g9-7509	0	black	6(3+3)
TCGA	tcga-h9-a6bx	0	white	6(3+3)
TCGA	tcga-hc-7075	0	Unk	6(3+3)
TCGA	tcga-hc-7077	0	black	6(3+3)
TCGA	tcga-hc-7209	0	Unk	6(3+3)
TCGA	tcga-hc-7748	0	Unk	6(3+3)
TCGA	tcga-hc-8213	0	white	6(3+3)
TCGA	tcga-hc-8258	0	black	6(3+3)
TCGA	tcga-hi-7170	0	white	6(3+3)
TCGA	tcga-j4-a67q	0	white	6(3+3)
TCGA	tcga-j4-a83k	0	white	6(3+3)
TCGA	tcga-j4-aatv	0	white	6(3+3)
TCGA	tcga-j4-aau2	0	white	6(3+3)
TCGA	tcga-j9-a8cn	0	white	6(3+3)
TCGA	tcga-m7-a720	0	white	6(3+3)
TCGA	tcga-qu-a6io	0	black	6(3+3)
TCGA	tcga-qu-a6ip	0	white	6(3+3)
TCGA	tcga-v1-a8mf	0	black	6(3+3)
TCGA	tcga-v1-a8mk	0	black	6(3+3)
TCGA	tcga-v1-a8wn	0	black	6(3+3)
TCGA	tcga-v1-a8ws	0	white	6(3+3)
TCGA	tcga-v1-a9of	0	white	6(3+3)
TCGA	tcga-v1-a9oq	0	hispanic	6(3+3)
TCGA	tcga-v1-a9ot	0	white	6(3+3)
TCGA	tcga-vp-a87e	0	black	6(3+3)
TCGA	tcga-xj-a9dq	0	white	6(3+3)
TCGA	tcga-y6-a8tl	0	Unk	6(3+3)
TCGA	tcga-zg-a8qx	0	white	6(3+3)
TCGA	tcga-2a-aayf	0	white	7(3+4)
TCGA	tcga-ch-5739	0	white	7(3+4)
TCGA	tcga-ch-5740	0	white	7(3+4)
TCGA	tcga-ch-5743	0	white	7(3+4)
TCGA	tcga-ch-5745	0	white	7(3+4)
TCGA	tcga-ch-5746	0	white	7(3+4)
TCGA	tcga-ch-5750	0	white	7(3+4)
TCGA	tcga-ch-5763	0	white	7(3+4)
TCGA	tcga-ch-5765	0	white	7(3+4)
TCGA	tcga-ch-5789	0	white	7(3+4)
TCGA	tcga-ch-5790	0	white	7(3+4)
TCGA	tcga-ch-5791	0	white	7(3+4)
TCGA	tcga-ch-5794	0	white	7(3+4)
TCGA	tcga-ej-5496	0	white	7(3+4)
TCGA	tcga-ej-5497	0	white	7(3+4)
TCGA	tcga-ej-5508	0	white	7(3+4)
TCGA	tcga-ej-5509	0	white	7(3+4)

TCGA	tcga-ej-5512	0	white	7(3+4)
TCGA	tcga-ej-5515	0	white	7(3+4)
TCGA	tcga-ej-5516	0	white	7(3+4)
TCGA	tcga-ej-5521	0	white	7(3+4)
TCGA	tcga-ej-5522	0	white	7(3+4)
TCGA	tcga-ej-5530	0	white	7(3+4)
TCGA	tcga-ej-5532	0	white	7(3+4)
TCGA	tcga-ej-5542	0	white	7(3+4)
TCGA	tcga-ej-7123	0	white	7(3+4)
TCGA	tcga-ej-7125	0	white	7(3+4)
TCGA	tcga-ej-7218	0	white	7(3+4)
TCGA	tcga-ej-7317	0	white	7(3+4)
TCGA	tcga-ej-7325	0	white	7(3+4)
TCGA	tcga-ej-7327	0	white	7(3+4)
TCGA	tcga-ej-7331	0	white	7(3+4)
TCGA	tcga-ej-7781	0	white	7(3+4)
TCGA	tcga-ej-7785	0	white	7(3+4)
TCGA	tcga-ej-7786	0	white	7(3+4)
TCGA	tcga-ej-7788	0	white	7(3+4)
TCGA	tcga-ej-7791	0	white	7(3+4)
TCGA	tcga-ej-7792	0	white	7(3+4)
TCGA	tcga-ej-7793	0	white	7(3+4)
TCGA	tcga-ej-7794	0	white	7(3+4)
TCGA	tcga-ej-7797	0	white	7(3+4)
TCGA	tcga-ej-a46h	0	black	7(3+4)
TCGA	tcga-ej-a46i	0	black	7(3+4)
TCGA	tcga-ej-a7nf	0	white	7(3+4)
TCGA	tcga-ej-a7ng	0	white	7(3+4)
TCGA	tcga-ej-a7nh	0	white	7(3+4)
TCGA	tcga-ej-a7nk	0	white	7(3+4)
TCGA	tcga-ej-a8fs	0	white	7(3+4)
TCGA	tcga-g9-6329	0	white	7(3+4)
TCGA	tcga-g9-6336	0	white	7(3+4)
TCGA	tcga-g9-6339	0	white	7(3+4)
TCGA	tcga-g9-6348	0	white	7(3+4)
TCGA	tcga-g9-6351	0	white	7(3+4)
TCGA	tcga-g9-6353	0	white	7(3+4)
TCGA	tcga-g9-6354	0	asian	7(3+4)
TCGA	tcga-g9-6361	0	white	7(3+4)
TCGA	tcga-g9-6364	0	white	7(3+4)
TCGA	tcga-g9-6365	0	white	7(3+4)
TCGA	tcga-g9-6370	0	white	7(3+4)
TCGA	tcga-g9-6377	0	white	7(3+4)
TCGA	tcga-g9-6378	0	black	7(3+4)
TCGA	tcga-g9-6384	0	white	7(3+4)
TCGA	tcga-g9-6385	0	white	7(3+4)
TCGA	tcga-g9-6498	0	white	7(3+4)
TCGA	tcga-g9-7519	0	white	7(3+4)
TCGA	tcga-g9-7522	0	white	7(3+4)
TCGA	tcga-h9-7775	0	white	7(3+4)
TCGA	tcga-h9-a6by	0	white	7(3+4)
TCGA	tcga-hc-7078	0	white	7(3+4)
TCGA	tcga-hc-7079	0	white	7(3+4)
TCGA	tcga-hc-7080	0	white	7(3+4)
TCGA	tcga-hc-7210	0	white	7(3+4)
TCGA	tcga-hc-7211	0	white	7(3+4)
TCGA	tcga-hc-7212	0	white	7(3+4)
TCGA	tcga-hc-7230	0	white	7(3+4)
TCGA	tcga-hc-7736	0	white	7(3+4)
TCGA	tcga-hc-7737	0	black	7(3+4)
TCGA	tcga-hc-7738	0	Unk	7(3+4)
TCGA	tcga-hc-7740	0	white	7(3+4)
TCGA	tcga-hc-7742	0	white	7(3+4)
TCGA	tcga-hc-7747	0	white	7(3+4)
TCGA	tcga-hc-7750	0	white	7(3+4)
TCGA	tcga-hc-7752	0	white	7(3+4)
TCGA	tcga-hc-7818	0	white	7(3+4)
TCGA	tcga-hc-7820	0	white	7(3+4)
TCGA	tcga-hc-8212	0	white	7(3+4)

TCGA	tcga-hc-8257	0	black	7(3+4)
TCGA	tcga-hc-8260	0	black	7(3+4)
TCGA	tcga-hc-8261	0	black	7(3+4)
TCGA	tcga-hc-a6al	0	white	7(3+4)
TCGA	tcga-hc-a6ap	0	white	7(3+4)
TCGA	tcga-hc-a6aq	0	white	7(3+4)
TCGA	tcga-hc-a6as	0	white	7(3+4)
TCGA	tcga-hc-a6hy	0	white	7(3+4)
TCGA	tcga-hc-a76w	0	white	7(3+4)
TCGA	tcga-hc-a76x	0	white	7(3+4)
TCGA	tcga-hc-a8d0	0	white	7(3+4)
TCGA	tcga-hc-a8d1	0	white	7(3+4)
TCGA	tcga-hi-7169	0	white	7(3+4)
TCGA	tcga-j4-8200	0	asian	7(3+4)
TCGA	tcga-j4-a67l	0	white	7(3+4)
TCGA	tcga-j4-a67n	0	white	7(3+4)
TCGA	tcga-j4-a67o	0	white	7(3+4)
TCGA	tcga-j4-a67s	0	white	7(3+4)
TCGA	tcga-j4-a67t	0	white	7(3+4)
TCGA	tcga-j4-a6m7	0	white	7(3+4)
TCGA	tcga-j4-a83j	0	white	7(3+4)
TCGA	tcga-j4-a83l	0	white	7(3+4)
TCGA	tcga-j4-a83n	0	white	7(3+4)
TCGA	tcga-kc-a4bl	0	black	7(3+4)
TCGA	tcga-kc-a4bn	0	black	7(3+4)
TCGA	tcga-kc-a4bo	0	black	7(3+4)
TCGA	tcga-kc-a7f3	0	white	7(3+4)
TCGA	tcga-kc-a7f6	0	white	7(3+4)
TCGA	tcga-kc-a7fa	0	white	7(3+4)
TCGA	tcga-kc-a7fd	0	white	7(3+4)
TCGA	tcga-kc-a7fe	0	white	7(3+4)
TCGA	tcga-kk-a6dy	0	black	7(3+4)
TCGA	tcga-kk-a6e2	0	black	7(3+4)
TCGA	tcga-kk-a6e3	0	black	7(3+4)
TCGA	tcga-kk-a6e4	0	black	7(3+4)
TCGA	tcga-kk-a7av	0	black	7(3+4)
TCGA	tcga-kk-a8i5	0	black	7(3+4)
TCGA	tcga-m7-a71y	0	white	7(3+4)
TCGA	tcga-m7-a721	0	white	7(3+4)
TCGA	tcga-qu-a6il	0	asian	7(3+4)
TCGA	tcga-qu-a6im	0	white	7(3+4)
TCGA	tcga-qu-a6in	0	white	7(3+4)
TCGA	tcga-tk-a8ok	0	white	7(3+4)
TCGA	tcga-v1-a8mg	0	black	7(3+4)
TCGA	tcga-v1-a8mj	0	black	7(3+4)
TCGA	tcga-v1-a8ml	0	black	7(3+4)
TCGA	tcga-v1-a8mu	0	black	7(3+4)
TCGA	tcga-v1-a8wl	0	black	7(3+4)
TCGA	tcga-v1-a8x3	0	white	7(3+4)
TCGA	tcga-vn-a88l	0	white	7(3+4)
TCGA	tcga-vn-a88m	0	black	7(3+4)
TCGA	tcga-vn-a88o	0	hispanic	7(3+4)
TCGA	tcga-vn-a88p	0	white	7(3+4)
TCGA	tcga-vp-a875	0	black	7(3+4)
TCGA	tcga-vp-a87j	0	black	7(3+4)
TCGA	tcga-x4-a8ks	0	black	7(3+4)
TCGA	tcga-xj-a83f	0	white	7(3+4)
TCGA	tcga-xj-a83h	0	white	7(3+4)
TCGA	tcga-ej-a46d	0	white	8(3+5)
TCGA	tcga-ej-a65g	0	white	8(3+5)
TCGA	tcga-ej-a8fp	0	white	8(3+5)
TCGA	tcga-hc-8265	0	white	8(3+5)
TCGA	tcga-v1-a9o9	0	white	8(3+5)
TCGA	tcga-v1-a9ox	0	white	8(3+5)
TCGA	tcga-vp-a876	0	white	8(3+5)
TCGA	tcga-2a-a8w1	0	asian	7(4+3)
TCGA	tcga-ch-5737	0	white	7(4+3)
TCGA	tcga-ch-5744	0	white	7(4+3)
TCGA	tcga-ch-5748	0	white	7(4+3)

TCGA	tcga-ch-5762	0	white	7(4+3)
TCGA	tcga-ch-5764	0	white	7(4+3)
TCGA	tcga-ch-5766	0	white	7(4+3)
TCGA	tcga-ch-5767	0	white	7(4+3)
TCGA	tcga-ch-5771	0	white	7(4+3)
TCGA	tcga-ch-5788	0	white	7(4+3)
TCGA	tcga-ej-5494	0	white	7(4+3)
TCGA	tcga-ej-5498	0	white	7(4+3)
TCGA	tcga-ej-5499	0	asian	7(4+3)
TCGA	tcga-ej-5501	0	white	7(4+3)
TCGA	tcga-ej-5502	0	Unk	7(4+3)
TCGA	tcga-ej-5504	0	white	7(4+3)
TCGA	tcga-ej-5505	0	white	7(4+3)
TCGA	tcga-ej-5510	0	white	7(4+3)
TCGA	tcga-ej-5527	0	white	7(4+3)
TCGA	tcga-ej-5531	0	white	7(4+3)
TCGA	tcga-ej-7115	0	white	7(4+3)
TCGA	tcga-ej-7312	0	white	7(4+3)
TCGA	tcga-ej-7314	0	white	7(4+3)
TCGA	tcga-ej-7315	0	white	7(4+3)
TCGA	tcga-ej-7318	0	white	7(4+3)
TCGA	tcga-ej-7328	0	white	7(4+3)
TCGA	tcga-ej-7330	0	white	7(4+3)
TCGA	tcga-ej-7783	0	white	7(4+3)
TCGA	tcga-ej-7784	0	white	7(4+3)
TCGA	tcga-ej-7789	0	black	7(4+3)
TCGA	tcga-ej-8470	0	black	7(4+3)
TCGA	tcga-ej-a65e	0	black	7(4+3)
TCGA	tcga-ej-a6rc	0	white	7(4+3)
TCGA	tcga-ej-a7nn	0	white	7(4+3)
TCGA	tcga-ej-a8fo	0	Unk	7(4+3)
TCGA	tcga-fc-7708	0	asian	7(4+3)
TCGA	tcga-fc-a66v	0	white	7(4+3)
TCGA	tcga-fc-a6hd	0	white	7(4+3)
TCGA	tcga-g9-6332	0	white	7(4+3)
TCGA	tcga-g9-6333	0	white	7(4+3)
TCGA	tcga-g9-6338	0	white	7(4+3)
TCGA	tcga-g9-6343	0	white	7(4+3)
TCGA	tcga-g9-6362	0	white	7(4+3)
TCGA	tcga-g9-6363	0	white	7(4+3)
TCGA	tcga-g9-6366	0	white	7(4+3)
TCGA	tcga-g9-6369	0	white	7(4+3)
TCGA	tcga-g9-6373	0	white	7(4+3)
TCGA	tcga-g9-6379	0	white	7(4+3)
TCGA	tcga-g9-6494	0	white	7(4+3)
TCGA	tcga-g9-6496	0	white	7(4+3)
TCGA	tcga-g9-7525	0	white	7(4+3)
TCGA	tcga-hc-7233	0	white	7(4+3)
TCGA	tcga-hc-7744	0	white	7(4+3)
TCGA	tcga-hc-7749	0	white	7(4+3)
TCGA	tcga-hc-7817	0	white	7(4+3)
TCGA	tcga-hc-a6an	0	white	7(4+3)
TCGA	tcga-hc-a6ao	0	white	7(4+3)
TCGA	tcga-hc-a6hx	0	white	7(4+3)
TCGA	tcga-j4-8198	0	black	7(4+3)
TCGA	tcga-j4-a67k	0	white	7(4+3)
TCGA	tcga-j4-a67m	0	white	7(4+3)
TCGA	tcga-j4-a67r	0	white	7(4+3)
TCGA	tcga-j4-a83i	0	white	7(4+3)
TCGA	tcga-j4-a83m	0	white	7(4+3)
TCGA	tcga-kc-a7f5	0	white	7(4+3)
TCGA	tcga-kk-a59z	0	black	7(4+3)
TCGA	tcga-kk-a6e5	0	black	7(4+3)
TCGA	tcga-kk-a7aq	0	white	7(4+3)
TCGA	tcga-kk-a7aw	0	black	7(4+3)
TCGA	tcga-kk-a7ay	0	white	7(4+3)
TCGA	tcga-kk-a7az	0	white	7(4+3)
TCGA	tcga-kk-a7b1	0	white	7(4+3)
TCGA	tcga-kk-a8i4	0	white	7(4+3)

TCGA	tcga-kk-a8i6	0	white	7(4+3)
TCGA	tcga-kk-a8if	0	black	7(4+3)
TCGA	tcga-kk-a8ig	0	white	7(4+3)
TCGA	tcga-kk-a8ih	0	white	7(4+3)
TCGA	tcga-kk-a8ij	0	white	7(4+3)
TCGA	tcga-kk-a8im	0	white	7(4+3)
TCGA	tcga-m7-a723	0	white	7(4+3)
TCGA	tcga-m7-a725	0	white	7(4+3)
TCGA	tcga-tp-a8tt	0	white	7(4+3)
TCGA	tcga-tp-a8tv	0	white	7(4+3)
TCGA	tcga-v1-a8mm	0	black	7(4+3)
TCGA	tcga-v1-a9oy	0	white	7(4+3)
TCGA	tcga-vn-a88n	0	white	7(4+3)
TCGA	tcga-vp-a87c	0	black	7(4+3)
TCGA	tcga-xa-a8jr	0	Unk	7(4+3)
TCGA	tcga-xj-a83g	0	black	7(4+3)
TCGA	tcga-xk-aajp	0	white	7(4+3)
TCGA	tcga-xk-aajr	0	white	7(4+3)
TCGA	tcga-xk-aajt	0	white	7(4+3)
TCGA	tcga-xk-aaju	0	white	7(4+3)
TCGA	tcga-xk-aak1	0	white	7(4+3)
TCGA	tcga-yl-a8ho	0	black	7(4+3)
TCGA	tcga-yl-a8sh	0	white	7(4+3)
TCGA	tcga-2a-a8vx	0	white	8(4+4)
TCGA	tcga-4l-aa1f	0	white	8(4+4)
TCGA	tcga-ej-5519	0	white	8(4+4)
TCGA	tcga-ej-5526	0	white	8(4+4)
TCGA	tcga-ej-7782	0	black	8(4+4)
TCGA	tcga-ej-8468	0	white	8(4+4)
TCGA	tcga-ej-8472	0	white	8(4+4)
TCGA	tcga-ej-8474	0	white	8(4+4)
TCGA	tcga-ej-a46b	0	white	8(4+4)
TCGA	tcga-ej-a46e	0	white	8(4+4)
TCGA	tcga-ej-a46f	0	white	8(4+4)
TCGA	tcga-ej-a46g	0	white	8(4+4)
TCGA	tcga-ej-a65d	0	white	8(4+4)
TCGA	tcga-ej-a6ra	0	white	8(4+4)
TCGA	tcga-ej-a7nj	0	white	8(4+4)
TCGA	tcga-g9-7510	0	white	8(4+4)
TCGA	tcga-g9-a9s0	0	white	8(4+4)
TCGA	tcga-g9-a9s4	0	white	8(4+4)
TCGA	tcga-g9-a9s7	0	white	8(4+4)
TCGA	tcga-hc-7819	0	white	8(4+4)
TCGA	tcga-hc-7821	0	white	8(4+4)
TCGA	tcga-hc-8262	0	white	8(4+4)
TCGA	tcga-hc-8266	0	white	8(4+4)
TCGA	tcga-hc-a48f	0	white	8(4+4)
TCGA	tcga-j4-a6g1	0	white	8(4+4)
TCGA	tcga-j4-a6g3	0	white	8(4+4)
TCGA	tcga-kk-a8i9	0	Unk	8(4+4)
TCGA	tcga-m7-a722	0	white	8(4+4)
TCGA	tcga-m7-a724	0	white	8(4+4)
TCGA	tcga-v1-a9oh	0	white	8(4+4)
TCGA	tcga-vn-a88i	0	white	8(4+4)
TCGA	tcga-vn-a88k	0	white	8(4+4)
TCGA	tcga-vn-a88q	0	white	8(4+4)
TCGA	tcga-vn-a88r	0	black	8(4+4)
TCGA	tcga-vn-a943	0	white	8(4+4)
TCGA	tcga-vp-a87b	0	white	8(4+4)
TCGA	tcga-vp-a87k	0	white	8(4+4)
TCGA	tcga-ww-a8zi	0	white	8(4+4)
TCGA	tcga-xj-a9dk	0	white	8(4+4)
TCGA	tcga-xk-aair	0	white	8(4+4)
TCGA	tcga-xk-aaj3	0	white	8(4+4)
TCGA	tcga-y6-a9xi	0	Unk	8(4+4)
TCGA	tcga-yl-a8sa	0	hispanic	8(4+4)
TCGA	tcga-yl-a8sf	0	white	8(4+4)
TCGA	tcga-yl-a8sl	0	white	8(4+4)
TCGA	tcga-yl-a9wj	0	white	8(4+4)

TCGA	tcga-2a-a8vt	0	asian	9(4+5)
TCGA	tcga-2a-a8w3	0	white	9(4+5)
TCGA	tcga-ch-5741	0	white	9(4+5)
TCGA	tcga-ch-5754	0	white	9(4+5)
TCGA	tcga-ch-5772	0	white	9(4+5)
TCGA	tcga-ej-5507	0	white	9(4+5)
TCGA	tcga-ej-5514	0	white	9(4+5)
TCGA	tcga-ej-5518	0	white	9(4+5)
TCGA	tcga-ej-5524	0	white	9(4+5)
TCGA	tcga-ej-5525	0	white	9(4+5)
TCGA	tcga-ej-8469	0	black	9(4+5)
TCGA	tcga-ej-a65b	0	white	9(4+5)
TCGA	tcga-ej-a65f	0	white	9(4+5)
TCGA	tcga-ej-a65j	0	white	9(4+5)
TCGA	tcga-ej-a7nm	0	white	9(4+5)
TCGA	tcga-fc-7961	0	white	9(4+5)
TCGA	tcga-fc-a5ob	0	white	9(4+5)
TCGA	tcga-g9-6356	0	white	9(4+5)
TCGA	tcga-g9-6367	0	white	9(4+5)
TCGA	tcga-g9-6499	0	white	9(4+5)
TCGA	tcga-hc-7081	0	white	9(4+5)
TCGA	tcga-hc-7213	0	white	9(4+5)
TCGA	tcga-hc-7232	0	white	9(4+5)
TCGA	tcga-hc-8264	0	white	9(4+5)
TCGA	tcga-hc-a631	0	white	9(4+5)
TCGA	tcga-hc-a632	0	white	9(4+5)
TCGA	tcga-hi-7168	0	white	9(4+5)
TCGA	tcga-j4-aatz	0	asian	9(4+5)
TCGA	tcga-j9-a52c	0	white	9(4+5)
TCGA	tcga-j9-a52d	0	white	9(4+5)
TCGA	tcga-j9-a52e	0	white	9(4+5)
TCGA	tcga-j9-a8ck	0	white	9(4+5)
TCGA	tcga-j9-a8cl	0	white	9(4+5)
TCGA	tcga-kc-a4br	0	white	9(4+5)
TCGA	tcga-kc-a4bv	0	asian	9(4+5)
TCGA	tcga-kk-a59v	0	white	9(4+5)
TCGA	tcga-kk-a59y	0	white	9(4+5)
TCGA	tcga-kk-a5a1	0	black	9(4+5)
TCGA	tcga-kk-a6e0	0	asian	9(4+5)
TCGA	tcga-kk-a6e1	0	white	9(4+5)
TCGA	tcga-kk-a6e6	0	white	9(4+5)
TCGA	tcga-kk-a6e8	0	white	9(4+5)
TCGA	tcga-kk-a7ap	0	white	9(4+5)
TCGA	tcga-kk-a7au	0	white	9(4+5)
TCGA	tcga-kk-a7b0	0	white	9(4+5)
TCGA	tcga-kk-a7b2	0	white	9(4+5)
TCGA	tcga-kk-a7b3	0	white	9(4+5)
TCGA	tcga-kk-a7b4	0	white	9(4+5)
TCGA	tcga-kk-a8i7	0	white	9(4+5)
TCGA	tcga-kk-a8i8	0	white	9(4+5)
TCGA	tcga-kk-a8ia	0	white	9(4+5)
TCGA	tcga-kk-a8ib	0	white	9(4+5)
TCGA	tcga-kk-a8ic	0	white	9(4+5)
TCGA	tcga-kk-a8ii	0	white	9(4+5)
TCGA	tcga-kk-a8ik	0	white	9(4+5)
TCGA	tcga-kk-a8il	0	white	9(4+5)
TCGA	tcga-mg-aamc	0	white	9(4+5)
TCGA	tcga-v1-a8wv	0	white	9(4+5)
TCGA	tcga-v1-a8ww	0	white	9(4+5)
TCGA	tcga-v1-a9oa	0	white	9(4+5)
TCGA	tcga-v1-a9z9	0	white	9(4+5)
TCGA	tcga-v1-a9zg	0	white	9(4+5)
TCGA	tcga-v1-a9zi	0	white	9(4+5)
TCGA	tcga-vp-a878	0	white	9(4+5)
TCGA	tcga-vp-a879	0	white	9(4+5)
TCGA	tcga-vp-a87d	0	white	9(4+5)
TCGA	tcga-vp-a87h	0	white	9(4+5)
TCGA	tcga-x4-a8kq	0	white	9(4+5)
TCGA	tcga-xq-a8tb	0	hispanic	9(4+5)

TCGA	tcga-yl-a8hj	0	white	9(4+5)
TCGA	tcga-yl-a8hk	0	white	9(4+5)
TCGA	tcga-yl-a8hl	0	white	9(4+5)
TCGA	tcga-yl-a8hm	0	white	9(4+5)
TCGA	tcga-yl-a8s8	0	white	9(4+5)
TCGA	tcga-yl-a8s9	0	white	9(4+5)
TCGA	tcga-yl-a8sb	0	white	9(4+5)
TCGA	tcga-yl-a8sc	0	white	9(4+5)
TCGA	tcga-yl-a8sj	0	white	9(4+5)
TCGA	tcga-yl-a8sk	0	white	9(4+5)
TCGA	tcga-yl-a8so	0	white	9(4+5)
TCGA	tcga-yl-a8sp	0	white	9(4+5)
TCGA	tcga-yl-a8sq	0	white	9(4+5)
TCGA	tcga-yl-a8sr	0	white	9(4+5)
TCGA	tcga-yl-a9wh	0	white	9(4+5)
TCGA	tcga-yl-a9wi	0	white	9(4+5)
TCGA	tcga-yl-a9wk	0	black	9(4+5)
TCGA	tcga-yl-a9wl	0	white	9(4+5)
TCGA	tcga-yl-a9wx	0	white	9(4+5)
TCGA	tcga-zg-a8qw	0	white	9(4+5)
TCGA	tcga-zg-a8qz	0	white	9(4+5)
TCGA	tcga-zg-a9l1	0	white	9(4+5)
TCGA	tcga-zg-a9l2	0	white	9(4+5)
TCGA	tcga-zg-a9l9	0	white	9(4+5)
TCGA	tcga-zg-a9lm	0	white	9(4+5)
TCGA	tcga-zg-a9ly	0	white	9(4+5)
TCGA	tcga-zg-a9lz	0	white	9(4+5)
TCGA	tcga-ej-5495	0	white	8(5+3)
TCGA	tcga-ej-5503	0	white	8(5+3)
TCGA	tcga-ej-5506	0	white	8(5+3)
TCGA	tcga-ej-a8fu	0	white	8(5+3)
TCGA	tcga-fc-a4ji	0	asian	8(5+3)
TCGA	tcga-su-a7e7	0	white	8(5+3)
TCGA	tcga-vp-a872	0	white	8(5+3)
TCGA	tcga-ch-5761	0	white	9(5+4)
TCGA	tcga-hc-a8cy	0	white	9(5+4)
TCGA	tcga-hc-a9te	0	white	9(5+4)
TCGA	tcga-hc-a9th	0	white	9(5+4)
TCGA	tcga-hi-7171	0	white	9(5+4)
TCGA	tcga-j9-a52b	0	white	9(5+4)
TCGA	tcga-j9-a8cm	0	white	9(5+4)
TCGA	tcga-kk-a59x	0	black	9(5+4)
TCGA	tcga-kk-a6e7	0	hispanic	9(5+4)
TCGA	tcga-kk-a8id	0	Unk	9(5+4)
TCGA	tcga-v1-a9o5	0	white	9(5+4)
TCGA	tcga-v1-a9o7	0	white	9(5+4)
TCGA	tcga-v1-a9ol	0	asian	9(5+4)
TCGA	tcga-v1-a9z7	0	white	9(5+4)
TCGA	tcga-vp-aa1n	0	white	9(5+4)
TCGA	tcga-xj-a9di	0	white	9(5+4)
TCGA	tcga-xj-a9dx	0	native american	9(5+4)
TCGA	tcga-yj-a8sw	0	Unk	9(5+4)
TCGA	tcga-yl-a9wy	0	white	9(5+4)
TCGA	tcga-zg-a8qy	0	white	9(5+4)
TCGA	tcga-zg-a9ky	0	white	9(5+4)
TCGA	tcga-zg-a9l0	0	white	9(5+4)
TCGA	tcga-zg-a9l4	0	white	9(5+4)
TCGA	tcga-zg-a9l5	0	white	9(5+4)
TCGA	tcga-zg-a9l6	0	white	9(5+4)
TCGA	tcga-zg-a9lb	0	white	9(5+4)
TCGA	tcga-zg-a9ln	0	white	9(5+4)
TCGA	tcga-zg-a9ls	0	white	9(5+4)
TCGA	tcga-zg-a9lu	0	white	9(5+4)
TCGA	tcga-zg-a9m4	0	white	9(5+4)
TCGA	tcga-zg-a9mc	0	white	9(5+4)
TCGA	tcga-zg-a9n3	0	white	9(5+4)
TCGA	tcga-zg-a9ni	0	white	9(5+4)
TCGA	tcga-ch-5751	0	white	10(5+5)

TCGA	tcga-g9-7523	0	black	10(5+5)
TCGA	tcga-xk-aaiv	0	white	10(5+5)
TCGA	tcga-xq-a8ta	0	hispanic	10(5+5)

Table S4: Mean Sequencing Depth of Coverage by Gene for Each Series

Gene	1_SU2C_PCF Discovery	2_SU2C_PCF Validation	3_RMH	4_UW	5_WC	6_UM	7_MSK
<i>ATM</i>	119	153	1412	398	708	113	356
<i>ATR</i>	125	148	1305	377	656	99	NA
<i>BAP1</i>	212	171	NA	434	702	142	271
<i>BARD1</i>	155	163	NA	389	673	246	296
<i>BRCA1</i>	181	195	1672	400	770	204	471
<i>BRCA2</i>	144	158	1747	365	683	177	520
<i>BRIP1</i>	140	169	NA	322	616	203	218
<i>CHEK2</i>	99	131	1207	353	698	306	210
<i>FAM175A</i>	127	136	NA	394	720	161	352
<i>GEN1</i>	133	142	NA	407	657	144	NA
<i>MLH1</i>	147	166	1083	502	864	109	351
<i>MRE11A</i>	110	142	1325	384	667	186	271
<i>MSH2</i>	115	141	1184	358	695	93	344
<i>MSH6</i>	200	201	2152	411	742	110	369
<i>NBN</i>	129	158	1342	437	660	161	320
<i>PALB2</i>	172	191	1970	383	754	118	468
<i>PMS2</i>	141	161	1153	305	576	144	246
<i>RAD51C</i>	136	153	1376	371	710	101	423
<i>RAD51D</i>	171	163	850	423	818	102	297
<i>XRCC2</i>	215	191	1242	378	721	92	NA

Table S5: Germline DRG Mutations in Metastatic Cases Compared to the General Population and Primary Cases Excluding Case Series 1

Gene	Metastatic PC Without Series 1 (n=542)		ExAC (without TCGA)		Metastatic PC Without Series 1 vs. ExAC		Primary PC (n=499)		Metastatic PC Without Series 1 vs. Primary PC	
	Count	Freq (%)	Count	Freq (%)	RR (95% CI)	P	Count	Freq (%)	RR (95% CI)	P
<i>ATM</i>	8	1.48%	133	0.25%	5.9 (2.6-11.5)	<0.001	5	1.00%	1.5 (0.6-2.9)	0.273
<i>ATR</i>	2	0.37%	43	0.08%	4.6 (0.6-16.4)	0.072	0	0.00%	-	NA
<i>BAP1*</i>	0	0.00%	1	0.00%	-	NA	0	0.00%	-	NA
<i>BARD1*</i>	0	0.00%	38	0.07%	-	NA	1	0.20%	-	NA
<i>BRCA1</i>	4	0.74%	104	0.22%	3.3 (0.9-8.5)	0.033	3	0.60%	1.2 (0.3-3.1)	0.574
<i>BRCA2</i>	28	5.17%	153	0.29%	17.9 (12.0-25.6)	<0.001	1	0.20%	25.8 (17.3-36.8)	<0.001
<i>BRIP1*</i>	1	0.24%	100	0.19%	1.3 (0.03-7.2)	0.539	1	0.20%	1.2 (0.03-6.7)	0.562
<i>CHEK2*</i>	10	1.87%	314	0.61%	3.1 (1.5-5.6)	0.002	2	0.40%	4.7 (2.2-8.5)	<0.001
<i>FAM175A*</i>	1	0.24%	52	0.10%	2.5 (0.1-13.8)	0.332	0	0.00%	-	NA
<i>GEN1*</i>	2	0.70%	42	0.08%	8.8 (1.1-31.5)	0.022	0	0.00%	-	NA
<i>MLH1</i>	0	0.00%	11	0.02%	-	NA	0	0.00%	-	NA
<i>MRE11A</i>	1	0.18%	36	0.07%	2.7 (0.1-15.1)	0.308	1	0.20%	0.9 (0.02-5.1)	1.000
<i>MSH2</i>	1	0.18%	23	0.04%	4.2 (0.1-23.5)	0.210	1	0.20%	0.9 (0.02-5.1)	1.000
<i>MSH6</i>	1	0.18%	41	0.08%	2.4 (0.1-13.3)	0.342	1	0.20%	0.9 (0.02-5.1)	1.000
<i>NBN</i>	2	0.37%	61	0.11%	3.2 (0.4-11.5)	0.129	1	0.20%	1.8 (0.2-6.6)	0.296
<i>PALB2</i>	3	0.55%	65	0.12%	4.5 (0.9-13.1)	0.030	2	0.40%	1.4 (0.3-4.0)	0.483
<i>PMS2</i>	2	0.37%	56	0.11%	3.5 (0.4-12.4)	0.115	1	0.20%	1.8 (0.2-6.6)	0.296
<i>RAD51C</i>	1	0.18%	59	0.11%	1.7 (0.04-9.2)	0.453	2	0.40%	0.5 (0.01-2.6)	0.731
<i>RAD51D</i>	2	0.37%	40	0.08%	4.9 (0.6-17.6)	0.064	1	0.20%	1.8 (0.2-6.6)	0.296
<i>XRCC2</i>	0	0.00%	23	0.04%	-	NA	0	0.00%	-	NA

* Metastatic cases with inadequate sequencing for this gene are censored

Table S6: Germline DRG Mutations in Metastatic Cases Compared to Primary Cases by NCCN Risk Category

Case Series	Metastatic PC		Localized Low or Intermediate-Risk (n=162)		Metastatic vs. Low or Intermediate-Risk PC		Localized High-Risk (n=337)		Metastatic vs. High-Risk PC	
	Count	Freq (%)	Count	Freq (%)	OR (95% CI)	P	Count	Freq (%)	OR (95% CI)	P
1-7	82	11.85%	4	2.47%	5.3 (1.9-20.2)	<0.001	19	5.64%	2.2 (1.3-4.0)	<0.001
2-7*	67	14.11%	4	2.47%	5.6 (2.0-21.3)	0.002	19	5.64%	2.4 (1.4-4.2)	0.001

* Removes 150 cases previously reported in Robinson et al.