

Table S1. Reagents and resources.

Reagent or Resource	Source	Identifier
Antibodies		
Alexa Fluor 700-conjugated anti-CD3 (clone 17A2)	BioLegend	Cat # 100216
Alexa Fluor 700-conjugated rat IgG2b, κ isotype control (clone RTK 4530)	BioLegend	Cat # 400628
Alexa Fluor 647-conjugated anti-Foxp3 (clone MF-14)	BioLegend	Cat # 126408
Alexa Fluor 647-conjugated rat IgG2b, κ isotype control (clone RTK 4530)	BioLegend	Cat # 400626
APC-conjugated anti-CD4 (clone RM4-5)	BioLegend	Cat # 100516
APC-conjugated anti-CD19 (clone 6D5)	BioLegend	Cat # 115512
APC-conjugated anti-Ly6C (clone HK1.4)	BioLegend	Cat # 128016
APC-conjugated anti-CD11c (clone N418)	BioLegend	Cat # 117309
APC-conjugated rat IgG2a, κ isotype control (clone RTK 2758)	BioLegend	Cat # 400511
APC-conjugated Armenian hamster IgG isotype control (clone HTK888)	BioLegend	Cat # 400911
Brilliant Violet 785-conjugated anti-CD4 (clone RM4-5)	BioLegend	Cat # 100552
Brilliant Violet 785-conjugated anti-CD11b (clone M1/70)	BioLegend	Cat # 101243
Brilliant Violet 711-conjugated anti-Ly6G (clone 1A8)	BioLegend	Cat # 127643
Brilliant Violet 785-conjugated rat IgG2a, κ isotype control (clone RTK 2758)	BioLegend	Cat # 400546
FITC-conjugated anti-CD45 (clone 30-F11)	BioLegend	Cat # 103108
FITC-conjugated rat IgG2b, κ isotype control (clone RTK 4530)	BioLegend	Cat # 400605
PE-conjugated anti-CD8a (clone 53-6.7)	BioLegend	Cat # 100707
PE-conjugated anti-Ly6C (clone 1A8)	BioLegend	Cat # 127607
PE-conjugated anti-F4/80 (clone BM8)	BioLegend	Cat # 123110
PE-conjugated rat IgG2a, κ isotype control (clone RTK 2758)	BioLegend	Cat # 400507
PE/Cyanine7-conjugated anti-CD8a (clone 53-6.7)	BioLegend	Cat # 100721
PE/Cyanine7-conjugated anti-CD49b (clone DX5)	BioLegend	Cat # 108921
PE/Cyanine7-conjugated rat IgG2a, κ isotype control (clone RTK 2758)	BioLegend	Cat # 400521
TruStain FcX Plus anti-CD16/32 (clone S17011E)	BioLegend	Cat # 156604
<i>In Vivo</i> MAb anti-mouse CTLA-4 (CD152) (clone 9D9)	BioXcell	Cat # BE0164
<i>In Vivo</i> MAb anti-mouse PD-1 (CD279) (clone RMP1-14)	BioXcell	Cat # BE0146
<i>In Vivo</i> MAb mouse IgG2b isotype control (clone MPC-11)	BioXcell	Cat # BE0086
<i>In Vivo</i> MAb rat IgG2a isotype control (clone 2A3)	BioXcell	Cat # BE0089
Ultra-LEAF™ purified anti-mouse CD20 (clone SA271G2)	BioLegend	Cat # 152115
Ultra-LEAF™ purified rat IgG2b, κ isotype control (clone RTK4530)	BioLegend	Cat # 400671
Ultra-LEAF™ purified anti-CXCL12 (SDF-1 β) (clone W15149B)	BioLegend	Cat # 939903
Purified rat IgG2a, κ isotype control (clone RTK2758)	BioLegend	Cat # 400502
Anti-CD29 (clone 18/CD29)	BD Biosciences	Cat # 610467
Rabbit polyclonal anti-ADAM12 antibody raised against amino acid 774-791 of the cytoplasmic tail of mouse ADAM12	Bethyl Laboratories	Custom-made
Reagents		
ACK Lysing Buffer	Gibco	Cat # A1049201
AMD 3100 octahydrochloride	TOCRIS	Cat # 3299
Alt-R® S.p.HiFi Cas9 Nuclease V3	IDT	Cat # 1081060
Alt-R® Cas9 Electroporation Enhancer	IDT	Cat # 1075915
BCA Protein Assay Kit	ThermoFisher	Cat # 23225
Bovine Serum Albumin	Amresco	Cat # 9048-46-8
Collagenase type IV	Sigma	Cat # C5138
Concanavalin A agarose	Sigma	Cat # C7555
Cyto-Last Buffer	BioLegend	Cat # 422501
DNase type IV	Sigma	Cat # D5025
DuoSet ELISA Ancillary Reagent Kit 2	R&D Systems	Cat # DY008
eFluor 450 Fixable Viability Dye	Invitrogen	Cat # 65086314
EZ-Link Sulfo-NHS-LC-Biotin	Thermo Scientific	Cat # 21335
Fetal Bovine Serum	Corning	Cat # MT35015CV
Hyaluronidase type IV-S	Sigma	Cat # H3884
KN2.0, non-homology mediated CRISPR knockout kit	OriGene	Cat # KN508813
Mouse CXCL12/SDF-1 α Quantikine ELISA kit	R&D Systems	Cat # MCX120
Neon™ Transfection System Kit	Invitrogen	Cat # MPK1096
NeutrAvidin agarose	Thermo Scientific	Cat # 29200
Percoll	Cytiva	Cat # 17544502
Phusion Green Hot Start II High-fidelity PCR master mix	ThermoFisher	Cat # F566S
Precision Count Beads	BioLegend	Cat # 424902
Propidium Iodine Staining Solution	Sigma	Cat # P4864
Quick Change II Site-Directed mutagenesis Kit	Agilent Technologies	Cat # 200523-5
Transforming growth factor β	R&D Systems	Cat # 7666-MB-005
True Nuclear transcription factor buffer set	BioLegend	Cat # 424401
Turbfectin 8.0	OriGene	Cat # TF81001
UltraComp eBeads Compensation Beads	Invitrogen	Cat # 01-2222-42

Table S2. Claudin-low ER-PR-HER2- tumors from the METABRIC study.

Retrieved from cBioPortal at <https://www.cbioportal.org>.

Classification into "core claudin-low" and "other claudin-low" is according to Fougner C, Bergholtz H, Norum JH, Sorlie T. "Re-definition of claudin-low as a breast cancer phenotype". *Nat Commun* 2020;11:1787.

Core claudin-low	Other claudin-low
Patient_ID	Patient_ID
MB-0634	MB-0157
MB-2724	MB-0164
MB-0489	MB-0206
MB-7008	MB-0211
MB-2993	MB-0238
MB-0617	MB-0303
MB-3752	MB-0352
MB-0284	MB-0354
MB-7078	MB-0400
MB-0494	MB-0401
MB-3395	MB-0414
MB-2963	MB-0420
MB-5392	MB-0446
MB-0893	MB-0558
MB-0220	MB-0608
MB-7023	MB-0613
MB-0495	MB-0627
MB-5162	MB-0658
MB-5408	MB-0906
MB-2643	MB-2833
MB-0470	MB-2850
MB-0289	MB-2857
MB-0540	MB-2904
MB-2556	MB-2957
MB-0424	MB-3001
MB-0265	MB-3062
MB-7025	MB-3067
MB-0269	MB-3271
MB-0174	MB-3292
MB-0502	MB-3383
MB-0179	MB-3476
	MB-3567
	MB-3702
	MB-4416
	MB-4622
	MB-4696
	MB-4733
	MB-4859
	MB-4865
	MB-4888
	MB-4893
	MB-4904
	MB-4931
	MB-4942
	MB-5041
	MB-5052
	MB-5065
	MB-5100
	MB-5222
	MB-5223
	MB-5323
	MB-5348
	MB-5440
	MB-5450
	MB-5531
	MB-5548
	MB-5572
	MB-5577
	MB-5616
	MB-5633
	MB-5651
	MB-6052
	MB-6055
	MB-6062
	MB-6143
	MB-6144
	MB-6188
	MB-6272
	MB-6305
	MB-7017
	MB-7052
	MB-7081
	MB-7089
	MB-7121
	MB-7158

Table S3. Immune gene signatures analyzed in the study.

CD4+ Th1 cell signature <i>(Gu-Trantien et al., J Clin Invest 2013;123:2873-2892)</i>						
CCND2	CTLA4	RAB33A	STAT1			
CD38	RAB27A	SH2D2A	TNFRSF4			

CD4+ Tfh cell signature <i>(Gu-Trantien et al., J Clin Invest 2013;123:2873-2892, and Hollern et al., Cell 2019;179:1191-1206)</i>			
CXCL13	CD40LG	MAF	ICOS
CXCR5	PDCD1	IL21	

B cell signature <i>(Hollern et al., Cell 2019;179:1191-1206, Danaher et al., J Immunother Cancer 2017;5:18, and Iglesia et al., Clin Cancer Res 2014;20:3818-3829)</i>						
BANK1	CD22	CR2	IGHG1	JCHAIN	TNFRSF17	IRF4
BLK	CD79A	EBF1	IGKC	MS4A1	SDC1	
CD19	CD79B	FFAR1	IL9R	VPREB3	XBP1	

TLS signature <i>(Crotty, Nat Rev Immunol 2015;15:185-189)</i>		
CCL19	CCL21	CXCL13

TIM signature <i>(Cassetta et al., Cancer Cell 2019;35:588-602)</i>						
AIF1	CCL4	DOK2	GBP5	LAIR1	PSMB9	VSIG4
C1QA	CCL8	FCN1	GIMAP6	LAP3	SIGLEC1	
C1QB	CD4	FGD2	HCST	LILRB4	TCN2	
C1QC	CD40	FOLR2	HLA-DOA	LST1	TLR7	
CCL2	CD83	GBP1	IRF8	NCF1C	TNFAIP3	
CCL3	CLEC7A	GBP4	ITGB2	PLTP	VAV1	

TIN/PMN-MDSC signature <i>(Kim et al., Nature Cell Biol 2019;21:1113-1126)</i>						
AMBIP	CCL5	CISH	EGR1	HLA-DQB1	NFKBIZ	SOCS3
ARG1	CCL7	CLEC6A	EGR2	HSPA1A	NUPR1	TNFAIP3
ATF3	CCL8	CSF1	FOSB	IER3	P2RY6	
CCL2	CCRL2	CXCL1	GADD45B	IGFBP6	PLK3	
CCL3	CD14	CXCL2	GPR35	MMP12	RGS1	
CCL4	CDKN1A	DUSP16	HLA-DMB	MS4A6A	SOAT2	

Table S4. Murine tumors and normal mammary gland samples.

Retrieved from Gene Expression Omnibus (GEO) at <https://www.ncbi.nlm.nih.gov/geo/>, datasets GSE3165, GSE8516, GSE9343, GSE14457, GSE15263, GSE17916, GSE27101, and GSE42640. Classification into "claudin-low" and "other" tumor types is according to Pfeifferle AD, Herschkowitz JJ, Usary J, Harrell JC, Spike BT, Adams JR, Torres-Arroyos MI, Brown M, Egan SE, Wahl GM, Rosen JM, Perou CM. "Transcriptomic classification of genetically engineered mouse models of breast cancer identifies human subtype counterparts". *Genome Biol* 2013;14:R125.

Claudin low tumors		Other tumors		Normal mammary gland tissue	
GEO number	Sample name	GEO number	Sample name	GEO number	Sample name
GSM1046309	BALB/c_p53null_2247_transplant_134654	GSM1046307	BALB/c_p53null_2153_transplant_137324	GSM1046325	C57Bl6_Mammary_Norm_131516_GMurrow
GSM1046323	Balbc_p53het_IR_C1201-4_spontaneous_GMurrow	GSM1046308	BALB/c_p53null_2224_transplant_137310	GSM1046467	C57Bl6_Mammary_Norm_131547_GMurrow
GSM1046424	Balbc_p53null_T1-C1-X1_128333_Perou	GSM1046310	BALB/c_p53null_2250_transplant_135434	GSM1046468	C57Bl6_Mammary_Norm_134742_GMurrow
GSM1046474	FVB_C3(1)-Tag_117733_untreated_Gmurrow	GSM1046311	BALB/c_p53null_2250_transplant_147753	GSM1046469	C57Bl6_Mammary_Norm_437_1_FURTH
GSM1046480	FVB_MMTV_Aib1_B348_MBROWN	GSM1046312	BALB/c_p53null_2304_transplant_137326	GSM1046470	C57Bl6_Mammary_Norm_439_2_FURTH
GSM211519	MIXED_Brg1het_T176_BULTMAN	GSM1046313	BALB/c_p53null_9263-3_transplant_135008	GSM1046471	C57Bl6_Mammary_Norm_443_1_FURTH
GSM381097	MMTV_LPA1-T4_GMills_repeat	GSM1046314	BALBc_p18null_133657	GSM1046927	FVB_NJ_NORMAL_CA02_451A_Lactating
GSM381098	MMTV_LPA1-T4_GMills	GSM1046315	BALBc_p18null_200_XIONG	GSM1046928	FVB_NJ_NORMAL_CA03_603A_Lactating
GSM381108	MMTV_LPA3-T4_GMills	GSM1046316	BALBc_p18null_205_XIONG	GSM69568	BALBc_NORMAL_MAMMARYGLAND_100989_SIMIN
GSM381109	MMTV_LPA3-T5_GMills	GSM1046317	BALBc_p18null_228_XIONG	GSM69572	BALBc_NORMAL_MAMMARYGLAND_100990_SIMIN
GSM661693	BALBc_p53null_spontaneous_4706L_MEDINA	GSM1046318	BALBc_p18null_250_XIONG	GSM69573	BALBc_NORMAL_MAMMARYGLAND_100991_SIMIN
GSM661705	Balbc_p53null_2247R_transplant_Gmurrow	GSM1046319	BALBc_p18null_411_bRep_XIONG	GSM69574	BALBc_NORMAL_MAMMARYGLAND_100992_SIMIN
GSM662191	Balbc_p53null_transplant_2151R_JH	GSM1046320	BALBc_p18null_426_XIONG	GSM69575	BALBc_NORMAL_MAMMARYGLAND_100993_SIMIN
GSM662235	Balbc_p53null_transplant_753R_JH	GSM1046321	BALBc_p18null_474_XIONG	GSM69631	FVB_NJ_NORMAL_MAMMARYGLAND_CA02_450A
GSM662244	FVB_C3(1)-Tag_123049_untreated_Gmurrow	GSM1046322	BALBc_p18null_854_XIONG	GSM69632	FVB_NJ_NORMAL_MAMMARYGLAND_CA02_489A
GSM69587	86D2F1_Wap_T121_580_SIMIN	GSM1046472	FVB_C3(1)-Tag_116966_untreated_GMurrow	GSM69633	FVB_NJ_NORMAL_MAMMARYGLAND_CA04_677A
GSM69598	FVB_DMBA_11_Spindle_GLAZER	GSM1046473	FVB_C3(1)-Tag_117485_untreated_GMurrow	GSM69634	FVB_NJ_NORMAL_MAMMARYGLAND_CA04_678A
GSM69599	FVB_DMBA_12_Spindle_GLAZER	GSM1046475	FVB_C3(1)-Tag_120209_no_treatment_Perou	GSM69635	FVB_NJ_NORMAL_MAMMARYGLAND_CA04_679A
GSM69600	FVB_DMBA_13_Spindle_GLAZER	GSM1046476	FVB_C57Bl6_C3(1)_Tag_117122_HERSCH		
GSM69610	FVB_MMTV_Neu_404_GREEN	GSM1046477	FVB_MMTV_Aib1_H323_MBROWN		
GSM80430	C57Bl6_MMTV_Cre_Brc1CoCo_p53het_108b_FURTH	GSM1046478	FVB_MMTV_Aib1_J225_MBROWN		
GSM80436	C57Bl6_MMTV_Cre_Brc1CoCo_p53het_88c1_FURTH	GSM1046479	FVB_MMTV_Aib1_J246_MBROWN		
GSM80437	C57Bl6_MMTV_Cre_Brc1CoCo_p53het_88a2_FURTH	GSM1046481	FVB_MMTV_Aib1_J355_MBROWN		
GSM80453	BALBc_p53null_2657R_PbROWN	GSM1046482	FVB_MMTV_Aib1_J59_MBROWN		
GSM80456	BALBc_p53het_IR_C1301_4_KOLLER	GSM1046483	FVB_MMTV_Aib1_T34_MBROWN		
		GSM1046484	FVB_MMTV_Aib1_T36_MBROWN		
		GSM1046485	FVB_MMTV_Aib1_T8_MBROWN		
		GSM1046486	FVB_NR_MMTV_FGF3_465_VARMUS		
		GSM1046487	FVB_NR_MMTV_FGF3_466_VARMUS		
		GSM1046488	FVB_NR_MMTV_FGF3_467_VARMUS		
		GSM1046489	FVB_NR_MMTV_FGF3_468_VARMUS		
		GSM1046490	FVB_NR_MMTV_FGF3_469_VARMUS		
		GSM1046491	NA_MMTV_HRAS_29_VARMUS		
		GSM1046492	NA_MMTV_HRAS_43_VARMUS		
		GSM1046493	NA_MMTV_HRAS_4379-1_LI		
		GSM1046494	NA_MMTV_HRAS_44_VARMUS		
		GSM1046495	NA_MMTV_HRAS_4492_LI		
		GSM1046496	NA_MMTV_HRAS_4633_LI		
		GSM1046497	NA_MMTV_HRAS_4861_LI		
		GSM1046498	NA_MMTV_HRAS_4863_LI		
		GSM1046700	FVB_MMTV_Myc_128491_untreated_GMurrow		
		GSM1046702	FVB_MMTV_Myc_128492_untreated_GMurrow		
		GSM1046704	FVB_MMTV_Myc_128620_untreated_GMurrow		
		GSM1046707	FVB_MMTV_Myc_128818_untreated_GMurrow		
		GSM1046710	FVB_MMTV_Myc_128990_untreated_GMurrow		
		GSM1046714	FVB_MMTV_Neu_116843-2_untreated_GMurrow		
		GSM1046717	FVB_MMTV_Neu_841971_PEROU		
		GSM1046720	FVB_MMTV_PyMT_103671_untreated_GMurrow		
		GSM1046723	FVB_MMTV_PyMT_103572-1_untreated_GMurrow		
		GSM1046725	FVB_MMTV_PyMT_209T_SHAW		
		GSM1046728	FVB_MMTV_PyMT_257T_SHAW		
		GSM1046730	FVB_MMTV_PyMT_311T_SHAW		
		GSM1046733	FVB_MMTV_PyMT_393T_SHAW		
		GSM1046736	FVB_MMTV_PyMT_423T_SHAW		
		GSM1046738	FVB_MMTV_PyMT_574_PEROU		
		GSM1046741	FVB_MMTV_Wnt1_119265-2_cn_Usary		
		GSM1046744	FVB_MMTV_Wnt1_Z2T.8T_COWIN		
		GSM1046747	FVB_MMTV_Wnt1_Z2T.4T_COWIN		
		GSM1046749	FVB_MMTV_Wnt1_531_USARY		
		GSM1046752	FVB_MMTV_Wnt1_9T.8T_COWIN		
		GSM1046755	FVB_MMTV_Wnt1_CA03_613A_CHURCHILL		
		GSM1046757	FVB_MMTV_Neu_121304-2 Non-treated		
		GSM1046761	FVB_MMTV_Neu_121575 Non-treated		
		GSM1046766	FVB_MMTV_Neu_121576 Non-treated		
		GSM1046769	FVB_MMTV_Neu_123299 Non-treated		
		GSM1046774	FVB_MMTV_PyMT_117704_Non-treated		
		GSM1046778	FVB_MMTV_PyMT_118021_Non-treated		
		GSM1046781	FVB_MMTV_Wnt1_124607_Non-treated		
		GSM1046784	FVB_MMTV_Wnt1_125799_Non-treated		
		GSM1046929	FVB_Wap_Myc_116885_untreated_GMurrow		
		GSM1046930	FVB_Wap_Myc_117166_bRep_PEROU		
		GSM1046931	FVB_Wap_Myc_117250_PEROU		
		GSM1046932	FVB_Wap_Myc_117252_PEROU		
		GSM1046933	FVB_Wap_Myc_117254_PEROU		
		GSM1046934	FVB_Wap_Myc_117318_bRep_PEROU		
		GSM1046935	FVB_Wap_Myc_CA04_812A_CHURCHILL		
		GSM1046936	FVB_Wap_Myc_CA05_868A_CHURCHILL		
		GSM1046937	Mixed_Rb_7_Oct22.0T_UHWC		
		GSM1046938	PIK3CA_Egan_3093		
		GSM1046939	PIK3CA_Egan_7048A		
		GSM1046940	PIK3CA_Egan_A0853		
		GSM1046941	PIK3CA_Egan_3073		
		GSM1046942	PIK3CA_Egan_4714		
		GSM1046943	MMTV-Cre_R26-Pk3caH107R_7281A_2R-Egan		
		GSM1046944	MMTV-Cre_R26-Pk3caH107R_7286A_5L-Egan		
		GSM1046945	PIK3CA_Egan_9529		
		GSM1046946	MMTV-Cre_R26-Pk3caH107R_9529_4R-Egan		
		GSM1046947	MMTV-Cre_R26-Pk3caH107R_9529_5L-Egan		
		GSM1046948	PIK3CA_Egan_A0255		
		GSM1046949	MMTV-Cre_R26-Pk3caH107R_A0835_3L-Egan		
		GSM1046950	STAT1-/-_Schreiber_11253		
		GSM1046951	STAT1-/-_Schreiber_4524		
		GSM1046952	STAT1-/-_Schreiber_9444		
		GSM1046953	STAT1-/-_Schreiber_TAC59		
		GSM1046954	STAT1-/-_Schreiber_TAC77		
		GSM1046955	STAT1-/-_Schreiber_TAC78		
		GSM1046956	STAT1-/-_Schreiber_TAC80		
		GSM211515	Brg1+/- murine mammary tumor (MIXED_Brg1het_T135_BULTMAN)		
		GSM211516	Brg1+/- murine mammary tumor (MIXED_Brg1het_T160_BULTMAN)		
		GSM211517	Brg1+/- murine mammary tumor (MIXED_Brg1het_T172_BULTMAN)		
		GSM211518	Brg1+/- murine mammary tumor (MIXED_Brg1het_T172_BULTMAN_biorep)		
		GSM211520	Brg1+/- murine mammary tumor (MIXED_Brg1het_T2023_BULTMAN)		

GSM211521	Brg14- murine mammary tumor (MIXED_Brg1het_T2134_BULTMAN)
GSM211522	Brg14- murine mammary tumor (MIXED_Brg1het_T221_BULTMAN)
GSM211523	Brg14- murine mammary tumor (MIXED_Brg1het_T284_BULTMAN)
GSM211524	Brg14- murine mammary tumor (MIXED_Brg1het_T284_BULTMAN_biorep)
GSM211525	Brg14- murine mammary tumor (MIXED_Brg1het_T372_BULTMAN)
GSM211526	Brg14- murine mammary tumor (MIXED_Brg1het_T55_BULTMAN)
GSM211527	Brg14- murine mammary tumor (MIXED_Brg1het_T646_BULTMAN)
GSM211528	Brg14- murine mammary tumor (MIXED_Brg1het_T920_BULTMAN)
GSM237856	MIXED_Wap_Cre_ETV6_NTRK3_C117T1_ORKIN
GSM237857	MIXED_Wap_Cre_ETV6_NTRK3_C393T1_ORKIN
GSM237858	MIXED_Wap_Cre_ETV6_NTRK3_C396T5_ORKIN
GSM237859	MIXED_Wap_Cre_ETV6_NTRK3_CR115_ORKIN
GSM237860	MIXED_Wap_Cre_ETV6_NTRK3_CR90-1_ORKIN
GSM237861	MIXED_Wap_Cre_ETV6_NTRK3_D14T1_ORKIN
GSM237862	MIXED_Wap_Cre_ETV6_NTRK3_D14T2_ORKIN
GSM237863	MIXED_Wap_Cre_ETV6_NTRK3_D203T1_ORKIN
GSM237864	MIXED_Wap_Cre_ETV6_NTRK3_D254T1_ORKIN
GSM237865	MIXED_Wap_Cre_ETV6_NTRK3_D279T1_ORKIN
GSM237866	MIXED_Wap_Cre_ETV6_NTRK3_D481_ORKIN
GSM237867	MIXED_Wap_Cre_ETV6_NTRK3_E93T1_ORKIN
GSM381089	Agilent-8440_4
GSM381090	Agilent-8440_3
GSM381091	Agilent-8436_4
GSM381092	Agilent-8439_1
GSM381093	Agilent-8439_3
GSM381094	Agilent-9440_4
GSM381095	Agilent-9441_1
GSM381096	Agilent-8440_2
GSM381099	Agilent-9440_1
GSM381100	Agilent-9441_2
GSM381101	Agilent-9441_3
GSM381102	Agilent-8439_2
GSM381103	Agilent-8437_1
GSM381104	Agilent-9440_2
GSM381105	Agilent-8437_4
GSM381106	Agilent-8439_4
GSM381107	Agilent-8437_2
GSM447004	FVB_MMTV_Wnt1_2406.4R_Rosen
GSM447559	FVB_MMTV_Wnt1_2494.2L_Rosen
GSM447560	FVB_MMTV_Wnt1_2495.1L_Rosen
GSM447561	FVB_MMTV_Wnt1_2543-4L_Rosen
GSM447562	FVB_MMTV_Wnt1_3065_Rosen
GSM447563	FVB_MMTV_Wnt1_3718.3R_Rosen
GSM447564	FVB_MMTV_Wnt1_JGFR1_2549_4L_ROSEN
GSM447565	FVB_MMTV_Wnt1_JGFR1_3851_5L_ROSEN
GSM447566	FVB_MMTV_Wnt1_JGFR1_4004_3L_ROSEN
GSM447567	FVB_MMTV_Wnt1_JGFR1_4013_3L_ROSEN
GSM447568	FVB_MMTV_Wnt1_JGFR2_2960_5L_ROSEN
GSM447569	FVB_MMTV_Wnt1_JGFR2_3068_2L_ROSEN
GSM447570	FVB_MMTV_Wnt1_JGFR2_3855_3L_ROSEN
GSM447571	FVB_MMTV_Wnt1_JGFR2_3861_3L_ROSEN
GSM447572	FVB_MMTV_Wnt1_IR2_5101_3L_Rosen
GSM447573	FVB_MMTV_Wnt1_IR2_5103_3L_Rosen
GSM447574	FVB_MMTV_Wnt1_IR2_5105_3L_Rosen
GSM447575	FVB_MMTV_Wnt1_IR2_5106_3L_Rosen
GSM660763	Balbc_p53null_transplant_T1-3
GSM661689	Balbc_p53het_IR_A2989-7_KOLLER_44K
GSM661692	Balbc_p53het_IR_C0323-4_KOLLER_44K
GSM661694	BALBc_p53null_spontaneous_4100R_MEDINA
GSM661695	BALBc_p53null_spontaneous_4127R_MEDINA
GSM661696	BALBc_p53null_spontaneous_4702L_MEDINA
GSM661697	BALBc_p53null_spontaneous_4729L_MEDINA
GSM661698	BALBc_p53null_spontaneous_2297R_MEDINA
GSM661699	Balbc_p53null_2153R_transplant_JIH
GSM661700	Balbc_p53null_2208L_transplant_JIH
GSM661702	Balbc_p53null_2225L_transplant_JIH
GSM661703	Balbc_p53null_2225R_transplant_JIH
GSM661704	Balbc_p53null_2245R_transplant_JIH
GSM661706	Balbc_p53null_2250L_transplant_JIH
GSM661707	Balbc_p53null_2304L_transplant_JIH
GSM661708	Balbc_p53null_2333R_transplant_JIH
GSM661709	Balbc_p53null_T2-336_transplant_JIH
GSM661710	Balbc_p53null_T7_transplant_JIH
GSM661711	Balbc_p53null_transplant_2151L_JIH_repeat
GSM661712	Balbc_p53null_transplant_2151L_JIH_repeat
GSM662192	Balbc_p53null_transplant_2153L_JIH
GSM662193	Balbc_p53null_transplant_2154L_JIH
GSM662194	Balbc_p53null_transplant_2209R_JIH
GSM662195	Balbc_p53null_transplant_2210L_JIH
GSM662196	Balbc_p53null_transplant_2211L_JIH
GSM662197	Balbc_p53null_transplant_2211R_JIH
GSM662198	Balbc_p53null_transplant_2224L_JIH
GSM662199	Balbc_p53null_transplant_2228R_JIH
GSM662200	Balbc_p53null_transplant_2243L_JIH
GSM662201	Balbc_p53null_transplant_2249L_JIH
GSM662202	Balbc_p53null_transplant_2331L_JIH
GSM662203	Balbc_p53null_transplant_2336R_JIH
GSM662204	Balbc_p53null_transplant_2349L_JIH
GSM662205	Balbc_p53null_transplant_2349R_JIH
GSM662206	Balbc_p53null_transplant_2350R_JIH
GSM662207	Balbc_p53null_transplant_2356R_JIH
GSM662208	Balbc_p53null_transplant_2374L_JIH
GSM662209	Balbc_p53null_transplant_2374R_JIH
GSM662210	Balbc_p53null_transplant_2377R_JIH
GSM662211	Balbc_p53null_transplant_2393R_JIH
GSM662231	Balbc_p53null_transplant_2398R_JIH
GSM662232	Balbc_p53null_transplant_2397L_JIH
GSM662233	Balbc_p53null_transplant_2412R_JIH
GSM662234	Balbc_p53null_transplant_2530R_JIH
GSM662236	Balbc_p53null_transplant_T1-355-3_JIH
GSM662237	FVB_C3(1)-Tag-120555_PEROU
GSM662238	FVB_C3(1)-Tag-121415_PEROU
GSM662239	FVB_C3(1)-Tag_116409C_PEROU
GSM662240	FVB_C3(1)-Tag_116410B_PEROU
GSM662241	FVB_C3(1)-Tag_117338-1_PEROU
GSM662242	FVB_C3(1)-Tag_117517_PEROU
GSM662243	FVB_C3(1)-Tag_120157_PEROU
GSM662245	FVB_MMTV_Neu_110277_PEROU
GSM662246	FVB_MMTV_Neu_110288_PEROU
GSM662247	FVB_MMTV_Neu_116913_PEROU

GSM662248	FVB_MMTV_Neu_116916_PEROU
GSM662249	FVB_MMTV_Neu_116922_PEROU
GSM662250	FVB_MMTV_Neu_117391_PEROU
GSM69576	BALB_BRCA1het_p53het_IR_B1129_4_KOLLER
GSM69577	BALB_BRCA1het_p53het_IR_B9964_6_KOLLER
GSM69578	BALB_BRCA1het_p53het_IR_B9965_1_KOLLER
GSM69579	BALB_BRCA1het_p53het_IR_C0379_5_KOLLER
GSM69580	BALB_p53het_IR_10915_7_KOLLER
GSM69581	BALB_p53het_IR_A1446_1_KOLLER_repeat
GSM69582	BALB_p53het_IR_A2989_7_KOLLER
GSM69583	BALB_p53het_IR_A5824_7_KOLLER
GSM69584	BALB_TgWAPT121_KS555
GSM69585	BALB_TgWAPT121_KS556
GSM69586	BDF1_TgWAPT121p53het_KS581_Solid
GSM69588	BDF1_TgWAPT121_KS643_Solid
GSM69589	BDF1_TgWAPT121_KS644_Solid+Gland
GSM69590	FVB_C3(1)_Tag_#72_GREEN
GSM69591	FVB_C3(1)_Tag_#74_GREEN
GSM69592	FVB_C3(1)_Tag_#76_GREEN
GSM69593	FVB_C3(1)_Tag_#84_GREEN
GSM69594	FVB_C3(1)_Tag_#86_GREEN
GSM69595	FVB_C3(1)_Tag_E29_1A_614_BROWN
GSM69596	FVB_C3(1)_Tag_E29_2A_632_BROWN
GSM69597	FVB_C3(1)_Tag_E29_5A_645_BROWN
GSM69601	FVB_DMBA_1_Adeno_GLAZER_repeat
GSM69602	FVB_DMBA_2_Adeno_GLAZER
GSM69603	FVB_DMBA_3_Adeno_GLAZER_repeat
GSM69604	FVB_DMBA_4_Adeno_GLAZER
GSM69605	FVB_DMBA_5_Squa_GLAZER
GSM69606	FVB_DMBA_6_Squa_GLAZER
GSM69607	FVB_DMBA_8_Squa_GLAZER
GSM69608	FVB_DMBA_9_Squa_GLAZER
GSM69609	FVB_DMBA_9_Squa_GLAZER_repeat
GSM69611	FVB_MMTV_Neu_7-6-99_GREEN
GSM69612	FVB_MMTV_Neu_8-2-99_GREEN
GSM69613	FVB_MMTV_Neu_CA01_416A_CHURCHILL
GSM69614	FVB_MMTV_Neu_CA01_416C_repeat_CHURCHILL
GSM69615	FVB_MMTV_Neu_CA01_431A_CHURCHILL
GSM69616	FVB_MMTV_Neu_CA01_432A_CHURCHILL
GSM69617	FVB_MMTV_PyVT_31_SIMIN
GSM69618	FVB_MMTV_PyVT_89_SIMIN
GSM69619	FVB_MMTV_PyVT_91#2_SIMIN
GSM69620	FVB_MMTV_PyVT_91#3_SIMIN
GSM69621	FVB_MMTV_PyVT_91_SIMIN
GSM69622	FVB_MMTV_Wnt1_CA02_467A_CHURCHILL
GSM69623	FVB_MMTV_Wnt1_CA02_478A_CHURCHILL
GSM69624	FVB_MMTV_Wnt1_CA02_486A_CHURCHILL
GSM69625	FVB_MMTV_Wnt1_CA02_493A_CHURCHILL
GSM69626	FVB_MMTV_Wnt1_CA02_506A_CHURCHILL
GSM69627	FVB_MMTV_Wnt1_CA02_570A_CHURCHILL
GSM69628	FVB_MMTV_Wnt1_CA02_570B_CHURCHILL
GSM69629	FVB_MMTV_Wnt1_CA03_587A_CHURCHILL
GSM69630	FVB_MMTV_Wnt1_CA03_634A_CHURCHILL
GSM69636	FVB_Wap_Int3_CA01_426A_CHURCHILL_repeat
GSM69637	FVB_Wap_Int3_CA01_433A_CHURCHILL
GSM69638	FVB_Wap_Int3_CA01_433A_dup2_CHURCHILL
GSM69639	FVB_Wap_Int3_CA01_433A_dup_CHURCHILL
GSM69640	FVB_Wap_Int3_CA01_434A_CHURCHILL
GSM69641	FVB_Wap_Int3_CA01_434A_CHURCHILL_repeat
GSM69642	FVB_Wap_Int3_CA02_437A_CHURCHILL
GSM69643	FVB_Wap_Int3_CA02_566A_CHURCHILL
GSM69644	FVB_Wap_Int3_CA02_575A_CHURCHILL
GSM69645	FVB_Wap_Myc_CA02_540A_CHURCHILL
GSM69646	FVB_Wap_Myc_CA02_540B_spindloid_CHURCHILL
GSM69647	FVB_Wap_Myc_CA02_540B_spindloid_dup_CHURCHILL
GSM69648	FVB_Wap_Myc_CA02_544A_dup_CHURCHILL
GSM69649	FVB_Wap_Myc_CA02_545A_CHURCHILL
GSM69650	FVB_Wap_Myc_CA02_548A_CHURCHILL
GSM69651	FVB_Wap_Myc_CA02_549A_CHURCHILL
GSM69652	FVB_Wap_Myc_CA02_550A_spindloid_CHURCHILL
GSM69653	FVB_Wap_Myc_CA02_567C_CHURCHILL
GSM69654	FVB_Wap_Myc_CA02_569A_CHURCHILL
GSM69655	FVB_Wap_Myc_CA02_579C_CHURCHILL
GSM69656	FVB_Wap_Myc_CA02_579F_CHURCHILL
GSM80424	FVB_MMTV_PyVT_575_Usary
GSM80425	FVB_MMTV_PyVT_430_Usary
GSM80426	FVB_MMTV_Neu_CA05_861A_CHURCHILL
GSM80427	FVB_MMTV_Neu_CA05_875A_CHURCHILL
GSM80428	FVB_Wap_Myc_CA05_869A_CHURCHILL
GSM80429	FVB_MMTV_Wnt1_CA04_676A_CHURCHILL
GSM80431	C57BL_6J_Wap_Tag_CA_224A_CHURCHILL
GSM80432	FVB_Wap_Myc_CA05_867A_CHURCHILL
GSM80433	C57BL_6J_Wap_Tag_CA_215A_CHURCHILL
GSM80434	C57BL_6J_Wap_Tag_CA_213A_CHURCHILL
GSM80435	C57Bl6_MMTV_Cre_BRCA1CoCo_p53het_106c1_FURTH
GSM80438	BALB_BRCA1het_p53het_IR_C0912_13_KOLLER
GSM80439	BALB_BRCA1het_p53het_IR_C0912_4_KOLLER
GSM80440	BALB_BRCA1het_p53het_IR_C0912_12_KOLLER
GSM80441	BALB_p53het_IR_C0323_4_KOLLER
GSM80442	BALB_p53het_IR_C1301_1_KOLLER
GSM80443	C57Bl6_MMTV_Cre_BRCA1CoCo_p53het_129_FURTH
GSM80444	C57Bl6_MMTV_Cre_BRCA1CoCo_p53het_172d_FURTH
GSM80445	C57Bl6_MMTV_Cre_BRCA1CoCo_p53het_145a2_FURTH
GSM80446	C57Bl6_MMTV_Cre_BRCA1CoCo_p53het_96b_FURTH
GSM80447	C57Bl6_MMTV_Cre_BRCA1CoCo_p53het_113a_FURTH
GSM80448	C57Bl6_MMTV_Cre_BRCA1CoCo_p53het_100a_FURTH
GSM80449	BDF1_WAP_T121_KS150_SIMIN
GSM80450	FVB_MMTV_Neu_59331_USARY
GSM80451	PB_p53null_3941R
GSM80452	PB_p53null_3939R
GSM80454	FVB_MMTV_Wnt1_CA04_663A_CHURCHILL
GSM80455	C57BL_6J_Wap_Tag_CA_226A_CHURCHILL
GSM80457	C57BL_6J_Wap_Tag_CA_226B_CHURCHILL
GSM80458	PB_p53null_1634R
GSM80459	PB_p53null_4304R