

	E-TABM-157		E-MTAB-183	E-TABM-827 [1]	GSE16795	Miscellaneous	Synthesis
Reference	Neve et al., [2]	Prat et al., [3]	Lapuk et al., [4]	Synthesis	Hollestelle et al., [5]	References	
<b>Cell line</b>							
<b>600MPE</b>	Luminal	Luminal	Luminal	-	Luminal		Luminal
<b>AU565a</b>	Luminal	Luminal	-	-	-		Luminal
<b>BT474</b>	Luminal	Luminal	Luminal	-	Luminal		Luminal
<b>BT483</b>	Luminal	Luminal		-	Luminal		Luminal
<b>CAMA1</b>	Luminal	Luminal	Luminal	Luminal	Luminal		Luminal
<b>EVSA-T</b>	-	-	-	-	Luminal		Luminal
<b>HCC1007</b>	Luminal	Luminal	-	-	-		Luminal
<b>HCC1008</b>	<i>Unassigned</i>	-	-	-	-	Luminal - Haughian et al., [6]	Luminal
<b>HCC1419</b>	-	-	-	Luminal	-	Luminal - Hoeflich et al., [7]	Luminal
<b>HCC1428</b>	Luminal	Luminal	-	-	-		Luminal
<b>HCC202</b>	Luminal	Luminal	-	-	-		Luminal
<b>HCC2185</b>	Luminal	Luminal	-	-	-		Luminal
<b>HCC2218</b>	-	-	-	-	-	Luminal - Hu et al., [8]	Luminal
<b>IBEP1</b>	-	-	-	Luminal	-	Luminal - Buckley et al., [9]	Luminal
<b>KPL1</b>	-	-	-	Luminal	-		Luminal
<b>LY2</b>	Luminal	Luminal	-	-	-		Luminal
<b>MCF7</b>	Luminal	Luminal	Luminal	Luminal	Luminal		Luminal
<b>MDAMB134VI</b>	Luminal	Luminal	-	Luminal	Luminal		Luminal
<b>MDAMB175VII</b>	Luminal	Luminal	-	Luminal	Luminal		Luminal
<b>MDAMB330</b>	-	-	-	-	Luminal		Luminal
<b>MDAMB361</b>	Luminal	Luminal	Luminal	Luminal	Luminal		Luminal
<b>MDAMB415</b>	Luminal	Luminal	Luminal	-	Luminal		Luminal
<b>MDAMB453</b>	Luminal	Luminal	Luminal	Luminal	Luminal		Luminal
<b>OCUB-F</b>	-	-	-	Luminal	Luminal		Luminal
<b>SKBR3</b>	Luminal	Luminal	Luminal	Luminal	Luminal		Luminal
<b>SK-BR-5</b>	-	-	-	-	Luminal		Luminal
<b>SUM185PE</b>	Luminal	Luminal	Luminal	-	Luminal		Luminal
<b>SUM44PE</b>	Luminal	Luminal	-	-	Luminal		Luminal
<b>SUM52PE</b>	Luminal	Luminal	Luminal	Luminal	Luminal		Luminal
<b>T47D</b>	Luminal	Luminal	Luminal	Luminal	Luminal		Luminal
<b>UACC812</b>	Luminal	Luminal	-	-	Luminal		Luminal

NON  
CLAUDIN-  
LOW

Data set	E-TABM-157		E-MTAB-183	E-TABM-827 [1]	GSE16795	Miscellaneous	Synthesis	
Reference	Neve et al., [2]	Prat et al., [3]	Lapuk et al., [4]	Synthesis	Hollestelle et al., [5]	References		
<b>Cell line</b>								
UACC-893	-	-	-	-	Luminal		Luminal	NON CLAUDIN- LOW
ZR751	Luminal	Luminal	Luminal	Luminal	Luminal		Luminal	
ZR7530	Luminal	Luminal	-	Luminal	Luminal		Luminal	
ZR75B	Luminal	Luminal	Luminal	-	-		Luminal	
<b>N=</b>	<b>27</b>	<b>25</b>	<b>13</b>	<b>15</b>	<b>23</b>			
184A1N4			Basal				Basal	NON CLAUDIN- LOW  *(except for E-MTAB- 183)
184B5			Basal				Basal	
BT20	Basal A	Basal A	Basal	BasalA	Basal		Basal A	
CAL-51	-	-	-	Basal B	-	Basal B - Sharpe et al., [10]	Basal B	
DU4475	<i>Unassigned</i>	-	-	Basal	<i>Unassigned</i>	Basal A - Kuemmerle et al.,[11]	Basal A	
GI-101	-	-	-	Basal	-	Basal - Mackay et al., [12]	Basal	
HB4A	-	-	-	Basal	-	Basal - Mackay et al., [12]	Basal	
HCC1143	Basal A	Basal A	Basal	Basal A	-		Basal A	
HCC1187	Basal A	Basal A	Basal	Basal A	-		Basal A	
HCC1500	Basal B	Basal B	Basal	Basal B	-		Basal B	
HCC1569	Basal A	Basal A	-	-	-		Basal A	
HCC1599	<i>Unassigned</i>	-	-	Basal A	-	Basal A - Hu et al.,[8]	Basal A	
HCC1806	-	-	-	Basal A	-	Basal A - Hu et al., [8]	Basal A	
HCC1937	Basal A	Basal A	-	BasalA	Basal		Basal A	
HCC1954	Basal A	Basal A	Basal	BasalA	-		Basal A	
HCC2157	Basal A	Basal A	-	-	-		Basal A	
HCC3153	Basal A	Basal A	Basal	-	-		Basal A	
HCC38	Basal B	Basal B	Claudin-low*	BasalB	-		Basal B	
HCC70	Basal A	Basal A	-	-	-		Basal A	
MCF10A	Basal B	Basal B	Basal	-	-		Basal B	
MCF10F			Basal				Basal	
MCF12A	Basal B	Basal B	Basal	-	-		Basal B	
MDAMB468	Basal A	Basal A	-	Basal A	Basal		Basal A	
PMC42	-	-	-	Basal	-	Basal - Mackay et al.,[12]	Basal	
SK-BR-7	-	-	-	Basal	Basal		Basal	
SUM102PT	-	-	-	-	Basal	Basal A - Heiser et al.,[13]	Basal A	

Data set	E-TABM-157		E-MTAB-183	E-TABM-827 [1]	GSE16795	Miscellaneous	Synthesis	
Reference	Neve et al., [2]	Prat et al., [3]	Lapuk et al., [4]	Synthesis	Hollestelle et al., [5]	References		
<b>Cell line</b>								
SUM149PT	Basal B	Basal B	-	Basal B	Basal		Basal B	NON CLAUDIN- LOW
SUM190PT	Basal A	Basal A	-	Basal A	-		Basal A	
SUM225CWN	Basal A	Basal A	-	-	-		Basal A	
SUM229PE	-	-	-	-	Basal	Basal - Mirzoeva et al.,[14]	Basal	
VP229	-	-	-	Basal	-	Basal - Brough et al.,[15]	Basal	
<b>N=</b>	<b>19</b>	<b>17</b>	<b>11</b>	<b>19</b>	<b>8</b>			
BT549	Basal B	Claudin-low	Claudin-low	Claudin-low	Basal		Claudin-low	CLAUDIN- LOW
HBL100	Basal B	Claudin-low	Claudin-low	-	-		Claudin-low	
HCC1395	-	-	-	Claudin-low	-	Claudin-low - Heiser et al.,[13]	Claudin-low	
HS578T	Basal B	Claudin-low	-	Claudin-low	Basal		Claudin-low	
MDAMB157	Basal B	Claudin-low	Claudin-low	Claudin-low	Basal		Claudin-low	
MDAMB231	Basal B	Claudin-low	Claudin-low	-	Basal		Claudin-low	
MDAMB435s	Basal B	Claudin-low	Claudin-low	Claudin-low	Basal		Claudin-low	
MDAMB436	Basal B	Claudin-low	-	Claudin-low	Basal		Claudin-low	
SUM1315MO2	Basal B	Claudin-low	-	-	Basal		Claudin-low	
SUM159PT	Basal B	Claudin-low	Claudin-low	Claudin-low	Basal		Claudin-low	
<b>N=</b>	<b>9</b>	<b>9</b>	<b>6</b>	<b>7</b>	<b>8</b>			

- Holland DG, Burleigh A, Git A, Goldgraben MA, Perez-Mancera PA, et al. (2011) ZNF703 is a common Luminal B breast cancer oncogene that differentially regulates luminal and basal progenitors in human mammary epithelium. *EMBO Mol Med* 3: 167-180.
- Neve RM, Chin K, Fridlyand J, Yeh J, Baehner FL, et al. (2006) A collection of breast cancer cell lines for the study of functionally distinct cancer subtypes. *Cancer Cell* 10: 515-527.
- Prat A, Parker JS, Karginova O, Fan C, Livasy C, et al. (2010) Phenotypic and molecular characterization of the claudin-low intrinsic subtype of breast cancer. *Breast Cancer Res* 12: R68.
- Lapuk A, Marr H, Jakkula L, Pedro H, Bhattacharya S, et al. (2010) Exon-level microarray analyses identify alternative splicing programs in breast cancer. *Mol Cancer Res* 8: 961-974.
- Hollestelle A, Nagel JH, Smid M, Lam S, Elstrodt F, et al. (2010) Distinct gene mutation profiles among luminal-type and basal-type breast cancer cell lines. *Breast Cancer Res Treat* 121: 53-64.
- Haughian JM, Pinto MP, Harrell JC, Bliesner BS, Joensuu KM, et al. (2012) Maintenance of hormone responsiveness in luminal breast cancers by suppression of Notch. *Proc Natl Acad Sci U S A* 109: 2742-2747.
- Hoeflich KP, Merchant M, Orr C, Chan J, Den Otter D, et al. (2012) Intermittent administration of MEK inhibitor GDC-0973 plus PI3K inhibitor GDC-0941 triggers robust apoptosis and tumor growth inhibition. *Cancer Res* 72: 210-219.
- Hu Z, Huang G, Sadanandam A, Gu S, Lenburg ME, et al. (2010) The expression level of HJURP has an independent prognostic impact and predicts the sensitivity to radiotherapy in breast cancer. *Breast Cancer Res* 12: R18.

9. Buckley NE, Conlon SJ, Jirstrom K, Kay EW, Crawford NT, et al. (2011) The DeltaNp63 proteins are key allies of BRCA1 in the prevention of basal-like breast cancer. *Cancer Res* 71: 1933-1944.
10. Sharpe R, Pearson A, Herrera-Abreu MT, Johnson D, Mackay A, et al. (2011) FGFR signaling promotes the growth of triple-negative and basal-like breast cancer cell lines both in vitro and in vivo. *Clin Cancer Res* 17: 5275-5286.
11. Kuemmerle NB, Rysman E, Lombardo PS, Flanagan AJ, Lipe BC, et al. (2011) Lipoprotein lipase links dietary fat to solid tumor cell proliferation. *Mol Cancer Ther* 10: 427-436.
12. Mackay A, Tamber N, Fenwick K, Iravani M, Grigoriadis A, et al. (2009) A high-resolution integrated analysis of genetic and expression profiles of breast cancer cell lines. *Breast Cancer Res Treat* 118: 481-498.
13. Heiser LM, Sadanandam A, Kuo WL, Benz SC, Goldstein TC, et al. (2012) Subtype and pathway specific responses to anticancer compounds in breast cancer. *Proc Natl Acad Sci U S A* 109: 2724-2729.
14. Mirzoeva OK, Das D, Heiser LM, Bhattacharya S, Siwak D, et al. (2009) Basal subtype and MAPK/ERK kinase (MEK)-phosphoinositide 3-kinase feedback signaling determine susceptibility of breast cancer cells to MEK inhibition. *Cancer Res* 69: 565-572.
15. Brough R, Frankum JR, Sims D, Mackay A, Mendes-Pereira AM, et al. (2011) Functional viability profiles of breast cancer. *Cancer Discov* 1: 260-273.