

**Table S1.** mRNA expression and DNA copy number for each gene on 51 different breast cancer cell lines. *Data were collected from the Cancer Cell Line Encyclopedia website, Broad Institute of MIT & Harvard.*

Cell line	STARD3 DNA	STARD3 RNA	ERBB2 DNA	ERBB2 RNA	GRB7 DNA	GRB7 RNA	TOP2A DNA	TOP2A RNA
HCC2157_BREAST	0.1564	3.74063845437 235	0.1564	5.63829493052 793	0.1564	2.9693069401586 7 -	-0.3172	5.70830257216 067
HS739T_BREAST	-0.0051	3.25807672387 796	-0.0051	3.73013280363 337	-0.0051	4.3197523070631 9	-0.0051	4.32559958272 99
HCC38_BREAST	0.7078	4.83359688879 628	0.7078	5.95488274618 24	0.7078	3.5802760518847 9	0.7078	7.14424264372 184
DU4475_BREAST	0.019	7.15985270961 41	0.019	2.18445770149 488	0.019	4.0204164117090 7	0.019	7.27712774261 48
MDAMB175VII_BREAST	0.0605	4.37996779284 518	0.0605	6.68207346026 197	0.0605	3.8335706393693 9	0.0605	5.59797955459 457
YMB1_BREAST	-0.1421	4.72530446715 759	-0.1421	5.54019935614 196	-0.1421	3.2107884486232 7 -	-0.1421	6.95375152798 261
T47D_BREAST	0.5089	3.21101505218 35	0.5089	3.13704913657 676	0.5089	5.3958269793327 6	0.5089	1.82886689518 906
HS742T_BREAST	0.0148	3.68569124041 783	0.0148	4.76386974251 808	0.0148	2.8070403069179 3 -	0.0148	5.60956236391 112
KPL1_BREAST	-0.6172	4.21969512986 467	-0.6172	3.68157321832 868	-0.6172	0.3881937281643 94	-0.6172	7.27015072345 395
MDAMB231_BREAST	0.0894	7.66630484868 248	0.0894	10.3054489294 019	0.0894	6.7814142466291 -	0.0894	3.87039341247 196
HCC2218_BREAST	2.7086	9.82895103043 21	2.7086	10.8645630695 722	2.7086	9.2044248757925 2.1699305048766	-1.0392	7.08915448210 724
HCC1954_BREAST	3.4633	4.38695563351 516	3.4633	5.26993721498 624	3.4633	2.1699305048766 4 -	0.1955	6.56366330194 949
CAMA1_BREAST	0.1513	4.38825737984 208	0.1513	2.80062939135 374	0.1513	3.6981277707616 3	0.1513	6.75908876256 39
HMC18_BREAST	0.4785	7.38804094174 984	0.4785	10.6940484654 529	0.4785	7.5787128929942 -	0.4785	7.09138873492 062
AU565_BREAST	2.7059	3.43313713721 291	2.7059	3.18307938383 293	2.7059	4.7374550538187 4	1.1804	5.64634610977 208
HS578T_BREAST	-0.2712	3.39505867715 947	-0.2712	5.11392335112 202	-0.2712	2.8071175664753 3	-0.2712	6.68093528156 465
BT20_BREAST	-0.2918	7.19202952822 555	-0.2918	8.61560146354 524	-0.2918	5.8112199394894 3 -	-0.2918	5.46878672132 309
MDAMB361_BREAST	2.2175	3.51725548172 696	2.2175	2.85581347749 338	2.2175	5.3099959521506 4	-1.1373	5.39903157083 463
MDAMB436_BREAST	-0.555	4.07595941469 333	-0.555	4.11091830262 162	-0.555	3.0978128926244 7	-0.555	5.50067329490 05
HCC1143_BREAST	0.1433	4.04331520761 467	0.1433	4.63438799130 223	0.1433	3.6424316354395 6.3732893357282	-0.7577	6.91493151789 707
HCC1937_BREAST	-0.0018	4.97004417169 738	-0.0018	10.0785935405 511	-0.0018	0.2829214202630 6	0.0262	6.41174255050 665
HCC1569_BREAST	2.3818	3.93189602393 376	3.065	2.96718693698 403	3.065	0.8282914202630 94	-0.1087	6.65591477358 628
HCC1395_BREAST	-0.5071	3.46548308009 28	-0.5071	5.71072100299 536	-0.434	1.9916694908634 5	-0.434	6.74667648105 317
HCC1187_BREAST	-0.3027	3.77062175487 836	-0.3027	5.74732125025 357	-0.3027	3.3768692598968 2	-0.3027	6.30642527090 342
ZR751_BREAST	-0.0934	3.67819263188 211	-0.0934	4.36845410706 142	-0.0934	3.1790240164711 2	-0.0934	6.24890693891 603
HCC70_BREAST	-0.5539	3.29188648783 331	-0.5539	4.64588047691 45	-0.5539	1.3536344122602 3	-0.5539	5.46644345110 357
MCF7_BREAST	-0.9661	3.29188648783 331	-0.9661	4.64588047691 45	-0.9661	1.3536344122602 3	-0.3149	5.46644345110 357
MCF7_BREAST	-0.9661	3.80000100365 021	-0.9661	3.42395209518 789	-0.9661	- 4.0374539635549	-0.3149	7.11015845301 091
MDAMB157_BREAST	-0.1929	8.59930131959 605	-0.1929	10.7140980178 049	-0.1929	7.8550417254149 7	-0.1929	7.46975545230 188
EFM192A_BREAST	2.7249	5.56520994911 134	2.7249	7.32570072243 021	2.7249	4.5463696830957 2	0.8409	5.33303384278 408
EVSAT_BREAST	0.1365	5.21694770488 11	0.1365	6.54989580461 561	0.1365	3.4778810196878 4	-1.0613	7.25859493005 535
MDAMB453_BREAST	1.1586	7.87067955753 244	1.1586	9.76434245451 96	1.1586	7.0936952840483 4	0.6518	6.03378777919 526
BT474_BREAST	2.6813		3.956		2.8149		-0.2824	

		3.55221468031		3.78199487134		-		4.57808920550
HS606T_BREAST	-0.0002	118	-0.0002	591	-0.0002	4.6789982946559	-0.0002	719
MDAMB415_BREAST		4.18439882854		5.05475880978		7		4.63988792675
T	-0.0879	458	-0.0879	133	-0.0879	3.2657426528061	-0.0879	961
MDAMB468_BREAST		4.02676268270		3.57698652531		2.9382312159214		6.14364665458
T	-0.3901	358	1.6605	407	-0.358	1	-0.358	37
		3.42163431011		3.15766550241		-		6.51711956957
BT549_BREAST	-0.4759	318	-1.351	63	-0.3831	1.8683422366429	-0.3831	627
		4.23951418615		4.69243001536		6		5.75039265194
CAL851_BREAST	0.1725	034	0.1725	711	0.1725	3.3872677021724	0.1725	264
		4.49089885037		4.40534509245		6		5.40640770612
HMEL_BREAST	0.0144	763	0.0144	8	0.0144	2.9182016716075	0.0144	766
		3.56085034219		4.42364965757		7		5.76913363430
HCC1806_BREAST	-0.1256	227	-0.1256	414	-0.1256	3.4837232918303	-0.1256	976
		7.89966927731		10.3662170779		8		7.26917620038
UACC812_BREAST	2.3893	364	4.3523	417	2.3946	7.8956963819736	1.5054	326
		8.72958050107		10.8356523179		8		4.97521395428
UACC893_BREAST	3.0726	719	3.0726	996	3.0726	8.6994570186298	-0.4519	991
		4.02531650672		4.82636402524		1		5.64156813530
HDQP1_BREAST	0.0894	027	0.0894	222	0.0894	3.4107770086919	0.0894	351
		8.60776205788		10.7187986369		7		5.55504966230
HCC1419_BREAST	2.5161	882	2.5161	465	2.5161	8.1495179719707	-0.7071	68
		3.48620407761		3.92191301338		9		6.59511654084
HS274T_BREAST	0.0059	891	0.0059	029	0.0059	4.4096400153887	0.0059	131
		8.25017001655		10.5732000246		9		5.17238004661
ZR7530_BREAST	2.7367	364	2.7367	994	2.7367	7.7575044612182	-0.8426	442
		3.42626257891		3.52800368950		3		5.92231653786
HS343T_BREAST	0.0135	994	0.0135	78	0.0135	4.6855024970607	0.0135	233
		3.76819422084		5.24723246371		2		7.02102756754
CAL51_BREAST	0.0298	561	0.0298	957	0.0298	3.1449990661074	0.0298	62
		3.53044420208		3.56941005015		3		5.81415762664
CAL120_BREAST	-0.1496	868	-0.1496	947	-0.1496	0.3386449549422	-0.1496	775
		7.14801194873		7.60529616186		98		6.13813803145
J1 MT1_BREAST	2.4607	919	2.4607	604	2.4607	6.4584026078809	-0.317	02

**Table S2.** Clinical and pathological characteristics according to STARD3 expression.

	STARD3- (N=15)	STARD3+ (N=97)	Total (N=112)	P-value
Initial T stage (TNM)				
T1	0 (0.0%)	20 (20.6%)	20 (17.9%)	0.093
T2	13 (86.7%)	62 (63.9%)	75 (67.0%)	
T3	0 (0.0%)	9 (9.3%)	9 (8.0%)	
T4	2 (13.3%)	6 (6.2%)	8 (7.1%)	
Initial N stage (TNM)				
N0	7 (46.7%)	44 (45.4%)	51 (45.5%)	0.991
N1	7 (46.7%)	47 (48.5%)	54 (48.2%)	
N2	1 (6.7%)	6 (6.2%)	7 (6.2%)	
Tumoral grade				
SBR I-II	9 (60.0%)	35 (36.1%)	44 (39.3%)	0.078
SBR III	6 (40.0%)	62 (63.9%)	68 (60.7%)	
ER H-score				
Mean (SD)	173.067 (128.326)	129.428 (123.067)	135.272 (124.091)	0.206
Range	0 - 300	0 - 300	0 - 300	
PR H-score				
Mean (SD)	54.567 (102.943)	64.232 (102.043)	62.938 (101.751)	0.734
Range	0 - 300	0 - 300	0 - 300	
Ki67 expression				
Unknown	2	1	3	0.223
< 30%	5 (38.5%)	22 (22.9%)	27 (24.8%)	
≥ 30%	8 (61.5%)	74 (77.1%)	82 (75.2%)	
Histological subtype				
Ductal	13 (86.7%)	94 (96.9%)	107 (95.5%)	0.175
Lobular	1 (6.7%)	2 (2.1%)	3 (2.7%)	
Lymphoid stroma	1 (6.7%)	1 (1.0%)	2 (1.8%)	
Associated ductal carcinoma in situ				
No	9 (60.0%)	48 (49.5%)	57 (50.9%)	0.448
Yes	6 (40.0%)	49 (50.5%)	55 (49.1%)	

Legend: STARD3 = StAR-related lipid transfer domain-3; SD = standard deviation; ER = estrogen receptors; PR = progesterone receptors; SBR = Scarff-Bloom-Richardson