

Supplementary Table S1.

SYT13 mRNA expression levels of 58 BC cell lines in the CCLE database.

Cell Line Name	ER Status	PgR Status	Relative SYT13 mRNA Expression Level (log2 (TPM+1))
AU565	—	—	0.475084883
BT20	—	—	0.028569152
BT474	+	+	0.250961574
BT483	+	+	2.702657543
BT549	—	—	0.097610797
CAL120	—	—	0.070389328
CAL148	—	—	2.757023247
CAL51	—	—	0.042644337
CAL851	—	—	0.028569152
CAMA1	+	+	0.782408565
DU4475	—	—	3.707082992
EFM19	+	+	3.032100843
EFM192A	+	+	1.906890596
HCC1143	—	—	0.765534746
HCC1187	—	—	0.678071905
HCC1395	—	—	0.189033824
HCC1419	+	—	0.014355293
HCC1428	+	+	1.321928095
HCC1500	—	—	3.499527024
HCC1569	—	—	0.124328135
HCC1599	—	—	0.028569152
HCC1806	—	—	0.070389328
HCC1937	—	—	0.443606651
HCC1954	—	—	0.344828497
HCC202	—	—	0.014355293
HCC2157	—	—	0
HCC2218	—	—	0.042644337
HCC38	—	—	1.117695043
HCC70	—	—	0.014355293
HDQ1P	—	—	0.056583528
HS578T	—	—	0.111031312
JIMT1	—	—	0.028569152
KPL1	—	—	0.622930351
MCF7	+	+	0.831877241

MDAMB134VI	+	-	2.060047384
MDAMB157	-	-	0.137503524
MDAMB175VII	+	-	0.263034406
MDAMB231	-	-	0.111031312
MDAMB361	+	-	1.14404637
MDAMB415	+	-	3.049630768
MDAMB436	-	-	0.097610797
MDAMB453	-	-	0.028569152
MDAMB468	-	-	0.411426246
MFM223	-	-	0
SKBR3	-	-	0.084064265
SUM102PT	-	-	0.014355293
SUM1315MO2	-	-	0
SUM149PT	-	-	0
SUM159PT	-	-	0.014355293
SUM185PE	-	-	0.056583528
SUM229PE	-	-	0.070389328
SUM44PE	+	-	1.10433666
SUM52PE	+	-	0
T47D	-	+	0.201633861
UACC812	+	+	0.807354922
UACC893	-	-	1.469885976
ZR751	+	-	2.032100843
ZR7530	+	-	0.757023247

BC, breast cancer; CCLE, cell line encyclopedia; ER, estrogen receptor; PgR, progesterone receptor; TPM, transcripts per million.

Supplementary Table S2.Correlations between mRNA expression levels of *SYT13* and 84 cancer-related genes.

Gene	Official Full Name	Correlation Coefficient	P-value
<i>ABL1</i>	ABL proto-oncogene 1, non-receptor tyrosine kinase	0.4615	0.1124
<i>AKT1</i>	AKT serine/threonine kinase 1	0.6813	0.0103
<i>APC</i>	APC regulator of WNT signaling pathway	0.6538	0.0153
<i>ATM</i>	ATM serine/threonine kinase	0.2692	0.3737
<i>BAX</i>	BCL2 associated X, apoptosis regulator	0.3352	0.2629
<i>BCL2</i>	BCL2 apoptosis regulator	0.6703	0.0122
<i>BCL2L1</i>	BCL2 like 1	-0.1264	0.6808
<i>BCR</i>	BCR activator of RhoGEF and GTPase	-0.1868	0.5411
<i>BRCA1</i>	BRCA1 DNA repair associated	0.6429	0.0178
<i>BRCA2</i>	BRCA2 DNA repair associated	0.6484	0.0165
<i>CASP8</i>	caspase 8	0.1264	0.6808
<i>CCND1</i>	cyclin D1	0.5055	0.078
<i>CDH1</i>	cadherin 1	0.5659	0.0438
<i>CDK4</i>	cyclin dependent kinase 4	0.5989	0.0306
<i>CDKN1A</i>	cyclin dependent kinase inhibitor 1A	0.5275	0.064
<i>CDKN2A</i>	cyclin dependent kinase inhibitor 2A	0.3681	0.2159
<i>CDKN2B</i>	cyclin dependent kinase inhibitor 2B	0.3714	0.2115
<i>CDKN3</i>	cyclin dependent kinase inhibitor 3	0.4835	0.0941
<i>CTNNB1</i>	catenin beta 1	-0.1429	0.6415
<i>E2F1</i>	E2F transcription factor 1	0.1429	0.6415
<i>EGF</i>	epidermal growth factor	0.3901	0.1876
<i>ELK1</i>	ETS transcription factor ELK1	0.2198	0.4706
<i>ERBB2</i>	erb-b2 receptor tyrosine kinase 2	0.1374	0.6545
<i>ESR1</i>	estrogen receptor 1	0.6538	0.0153
<i>ETS1</i>	ETS proto-oncogene 1, transcription factor	-0.2802	0.3538
<i>FHIT</i>	fragile histidine triad diadenosine triphosphatase	0.2747	0.3637
<i>FOS</i>	Fos proto-oncogene, AP-1 transcription factor subunit	0.2088	0.4936
<i>FOXD3</i>	forkhead box D3	-0.0549	0.8585
<i>HGF</i>	hepatocyte growth factor	0.0221	0.9429
<i>HIC1</i>	HIC ZBTB transcriptional repressor 1	-0.1264	0.6808
<i>HRAS</i>	HRas proto-oncogene, GTPase	0.1209	0.694
<i>IGF2R</i>	insulin like growth factor 2 receptor	-0.0824	0.789
<i>JAK2</i>	Janus kinase 2	0.2308	0.4481
<i>JUN</i>	Jun proto-oncogene, AP-1 transcription factor subunit	-0.1758	0.5656

<i>JUNB</i>	JunB proto-oncogene, AP-1 transcription factor subunit	0.2363	0.4371	
<i>JUND</i>	JunD proto-oncogene, AP-1 transcription factor subunit	-0.1484	0.6286	
<i>KIT</i>	KIT proto-oncogene, receptor tyrosine kinase	0.7253	0.005	
<i>KITLG</i>	KIT ligand	0.4176	0.1557	
<i>KRAS</i>	KRAS proto-oncogene, GTPase	0.7912	0.0013	
<i>MCL1</i>	MCL1 apoptosis regulator, BCL2 family member	0.2473	0.4154	
<i>MDM2</i>	MDM2 proto-oncogene	0.7967	0.0011	
<i>MEN1</i>	menin 1	0.4066	0.168	
<i>MET</i>	MET proto-oncogene, receptor tyrosine kinase	-0.2363	0.4371	
<i>MGMT</i>	O-6-methylguanine-DNA methyltransferase	0.456	0.1173	
<i>MLH1</i>	mutL homolog 1	0.4615	0.1124	
<i>MOS</i>	MOS proto-oncogene, serine/threonine kinase	0.2967	0.3249	
<i>MYB</i>	MYB proto-oncogene, transcription factor	0.7088	0.0067	
<i>MYC</i>	MYC proto-oncogene, bHLH transcription factor	0.0659	0.8305	
<i>MYCN</i>	MYCN proto-oncogene, bHLH transcription factor	0.6099	0.0269	
<i>NFI</i>	neurofibromin 1	0.5934	0.0325	
<i>NF2</i>	neurofibromin 2	0.4176	0.1557	
<i>NFKB1</i>	nuclear factor kappa B subunit 1	0.5385	0.0576	
<i>NFKBIA</i>	NFKB inhibitor alpha	0.7253	0.005	
<i>NRAS</i>	NRAS proto-oncogene, GTPase	0.2967	0.3249	
<i>PIK3C2A</i>	phosphatidylinositol-4-phosphate subunit type 2 alpha	3-kinase catalytic	0.478	0.0985
<i>PIK3CA</i>	phosphatidylinositol-4,5-bisphosphate subunit alpha	3-kinase catalytic	0.5055	0.078
<i>PML</i>	PML nuclear body scaffold	0.011	0.9716	
<i>PRKCA</i>	protein kinase C alpha	0.0055	0.9858	
<i>RAF1</i>	Raf-1 proto-oncogene, serine/threonine kinase	0.3736	0.2086	
<i>RARA</i>	retinoic acid receptor alpha	0.6374	0.0191	
<i>RASSF1</i>	Ras association domain family member 1	-0.1648	0.5905	
<i>RB1</i>	RB transcriptional corepressor 1	0.2527	0.4048	
<i>REL</i>	REL proto-oncogene, NF-kB subunit	0.4176	0.1557	
<i>RET</i>	ret proto-oncogene	0.4176	0.1557	
<i>ROS1</i>	ROS proto-oncogene 1, receptor tyrosine kinase	-0.0165	0.9574	
<i>RUNX1</i>	RUNX family transcription factor 1	0.3297	0.2713	
<i>RUNX3</i>	RUNX family transcription factor 3	0.1593	0.6031	
<i>S100A4</i>	S100 calcium binding protein A4	0.2253	0.4593	
<i>SERPINB5</i>	serpin family B member 5	0.2747	0.3637	
<i>SH3PXD2A</i>	SH3 and PX domains 2A	-0.1538	0.6158	

<i>SMAD4</i>	SMAD family member 4	0.3736	0.2086
<i>SRC</i>	SRC proto-oncogene, non-receptor tyrosine kinase	0.2088	0.4936
<i>STAT3</i>	signal transducer and activator of transcription 3	0.2143	0.4821
<i>STK11</i>	serine/threonine kinase 11	0.1484	0.6286
<i>TGFB1</i>	transforming growth factor beta 1	0.1099	0.7208
<i>TNF</i>	tumor necrosis factor	0.011	0.9716
<i>TP53</i>	tumor protein p53	0.2198	0.4706
<i>TP73</i>	tumor protein p73	0.6648	0.0132
<i>TSC1</i>	TSC complex subunit 1	0.2692	0.3737
<i>VHL</i>	von Hippel-Lindau tumor suppressor	0.3462	0.2466
<i>WT1</i>	WT1 transcription factor	0.0934	0.7615
<i>WWOX</i>	WW domain containing oxidoreductase	0.6813	0.0103
<i>XRCC1</i>	X-ray repair cross complementing 1	0.6813	0.0103
<i>ZHX2</i>	zinc fingers and homeoboxes 2	0.4451	0.1275