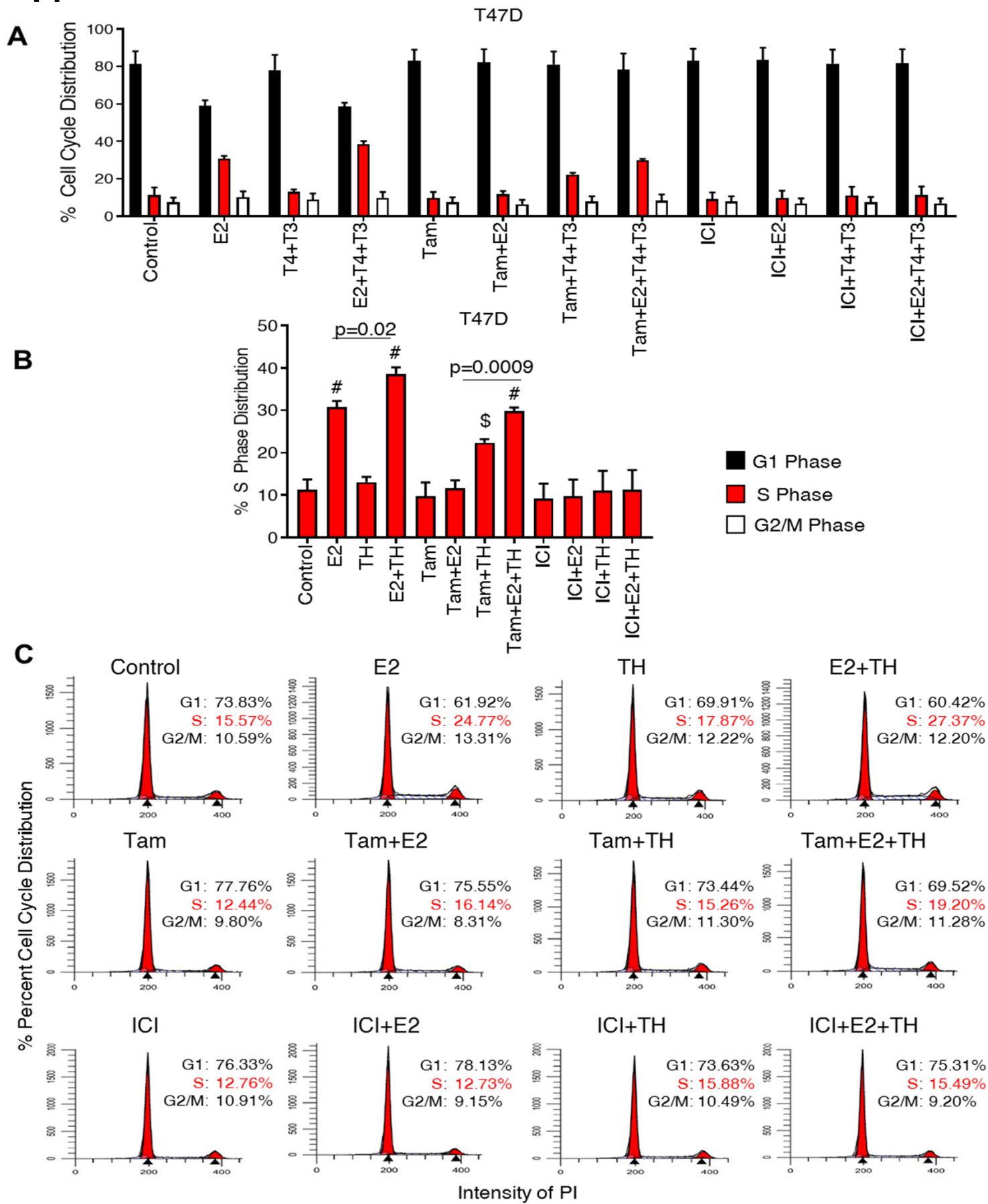
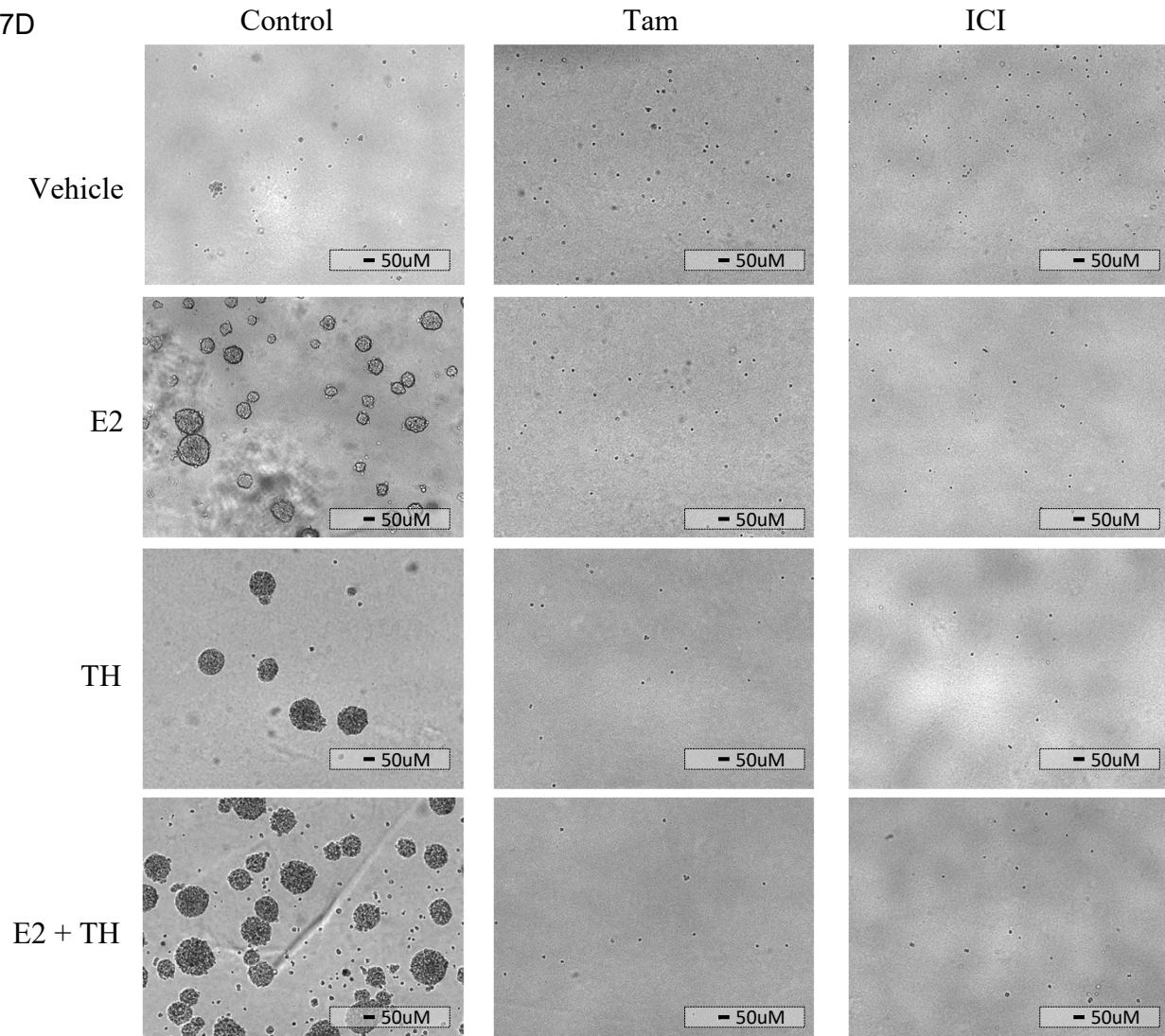


# Supplemental 1

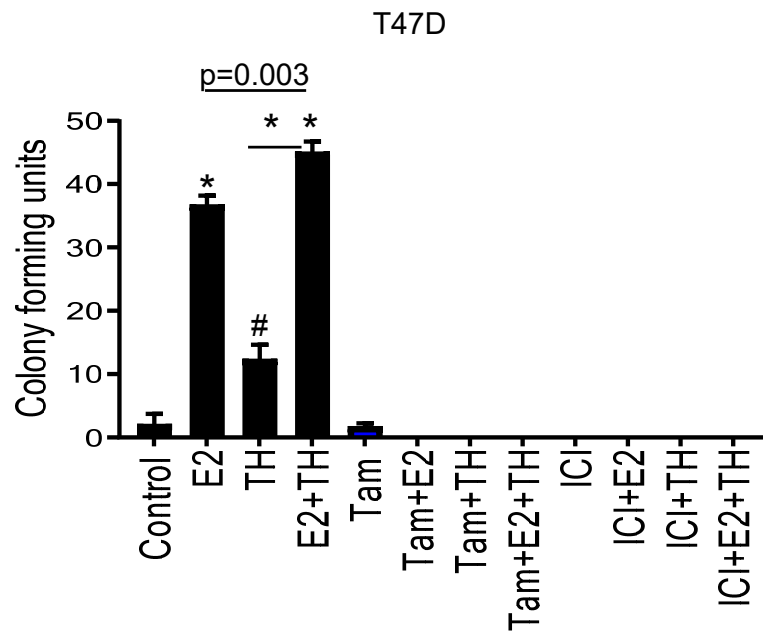


# Supplemental 2

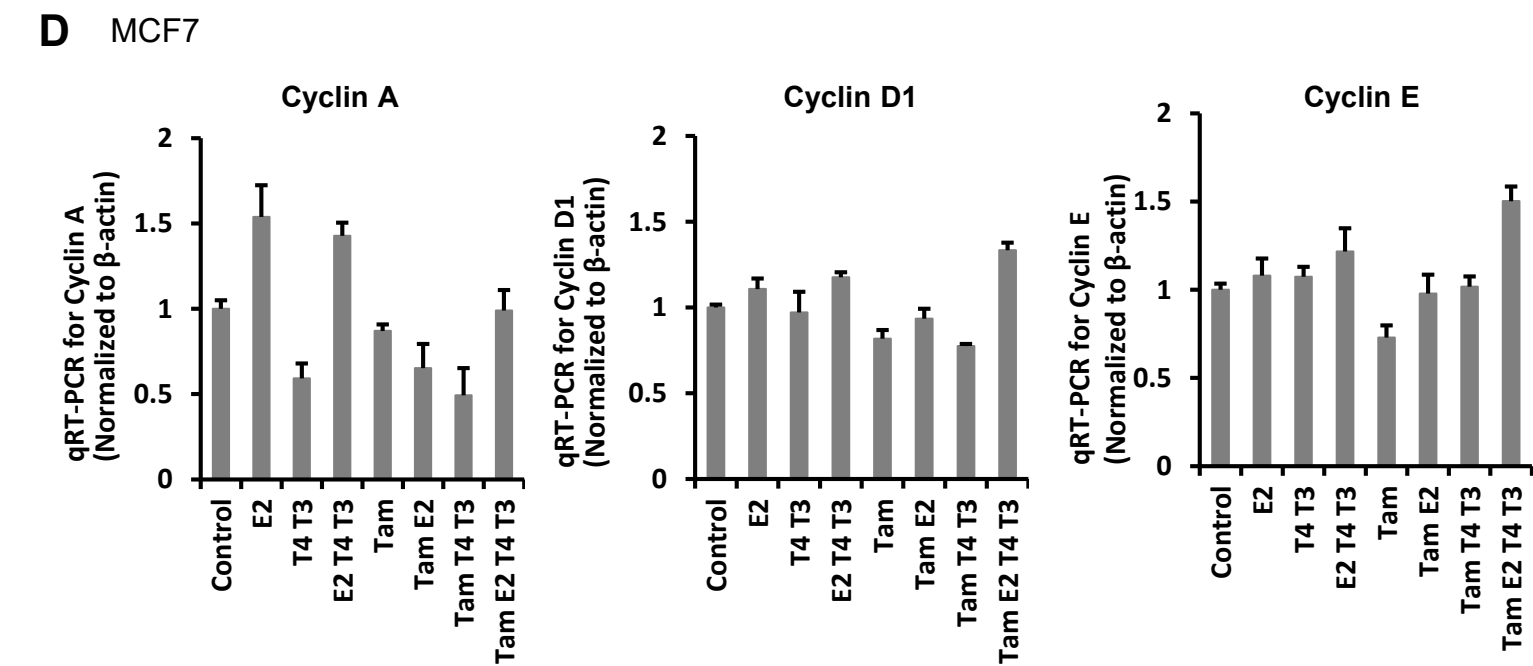
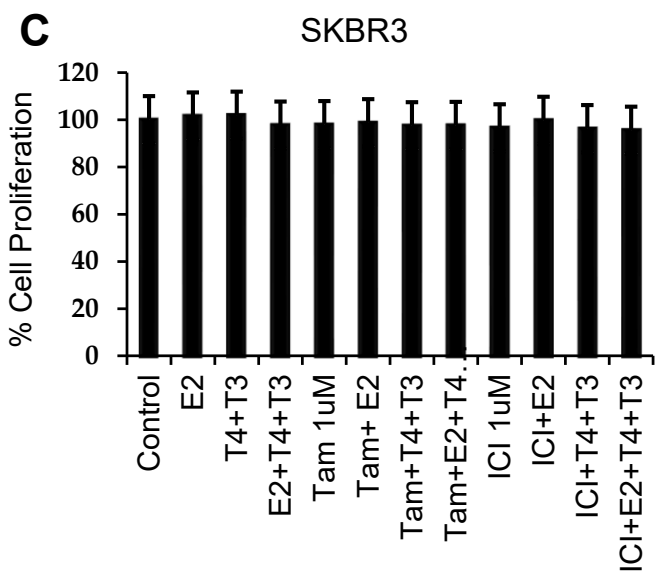
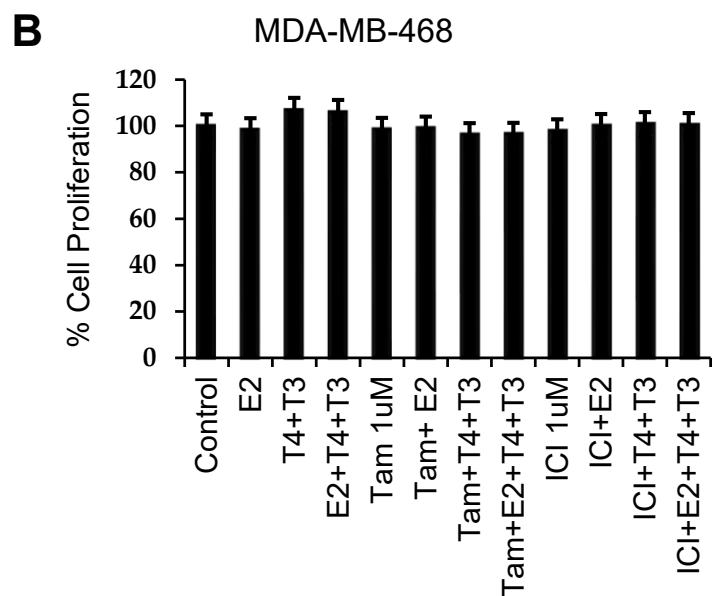
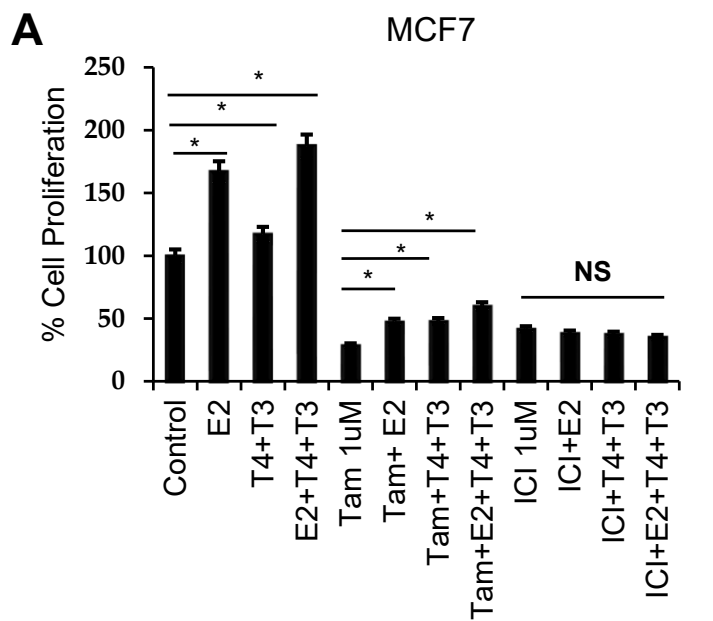
**A** T47D



**B**



Supplemental 3



# Supplementary Table 1

RefSeq	Gene Symbol	Gene Name	Fold Change	p-value	Direction relative to control	Cell line
<b>D. Regulated by Tam relative to vehicle</b>						
	HIST1H3B	Histone cluster 1, H3B	-1.32	1.37E-05	Tam Down	MCF7
	TUBB	Tubulin B	-1.36	9.79E-07	Tam Down	MCF7
	TFF1	Trefoli factor 1 (pS2)	-1.74	3.41E-08	Tam Down	MCF7
	HIST1H3B	Histone cluster 1, H2BH	-1.79	9.61E-06	Tam Down	MCF7
	GREB1	Growth regulation by E2 in breast cancer	-1.79	2.54E-08	Tam Down	MCF7
<b>E. Regulated by Tam+E2 relative to Tam</b>						
	GREB1	Growth regulation by E2 in breast cancer	1.83	2.54E-08	up vs. Tam	MCF7
	GFRA1	GDNF family receptor alpha1	1.73	4.91E-05	up vs. Tam	MCF7
	TFF1	Trefoli factor 1 (pS2)	1.68	3.41E-08	up vs. Tam	MCF7
	FKBP4	FK506 binding protein 4	1.5	5.67E-06	up vs. Tam	MCF7
	TUBB	Tubulin B	1.35	9.79E-07	up vs. Tam	MCF7
	TH1L	TH1-like (drosophila)	1.33	2.04E-05	up vs. Tam	MCF7
	ACLY	ATP citrate lyase	1.32	8.96E-06	up vs. Tam	MCF7
	SUZ12P	Suppressor or zeste 12 homolog pseudogene	1.2	4.42E-05	up vs. Tam	MCF7
	B4GALT1	UDP-Gal:βGlcNAc β 1,4-galactosyltransferase, polypeptide	1.83	2.37E-07	up vs. Tam	T47D
	FKBP4	FK506 binding protein 4	1.64	7.58E-09	up vs. Tam	T47D
	SERPINA6	Serpin peptidase inhibitor, clade A	1.62	5.75E-08	up vs. Tam	T47D
	IGFBP4	Insulin like growth factor binding protein 4	1.51	4.01E-07	up vs. Tam	T47D
	IER3	Immediate early response 3	1.48	5.67E-06	up vs. Tam	T47D
	TTC39A	Tetratricopeptide repeat domain 39A	1.42	8.41E-06	up vs. Tam	T47D
	TOB1	Transducer of ERBB2, 1	1.39	2.18E-06	up vs. Tam	T47D
	CTSD	Cathepsin D	1.38	9.48E-07	up vs. Tam	T47D
	CA12	Carbonic anhydrase XII	1.36	3.64E-08	up vs. Tam	T47D
	BRI3BP	BRI3 binding protein	1.35	3.73E-06	up vs. Tam	T47D
	PXK	PX domain containing serine/threonine kinase	1.28	1.17E-05	up vs. Tam	T47D
	KRT19	Keratin 19	1.27	2.24E-05	up vs. Tam	T47D
	STC2	Stanniocalcin 2	1.25	2.09E-05	up vs. Tam	T47D
<b>F. Regulated by Tam+TH relative to Tam</b>						
	STC2	Stanniocalcin 2	1.78	4.90E-11	up vs. Tam	T47D
	PFKFB3	6-phosphofructo-2-kinase/fructose-2, 6-biphosphatase 3	1.44	3.10E-07	up vs. Tam	T47D
	SLC9A3R1	Solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1	1.41	1.51E-07	up vs. Tam	T47D
	TP53INP2	Tumor protein p53 inducible nuclear protein 2	1.37	1.41E-05	up vs. Tam	T47D
	SLC7A5	Solute carrier family 7 (cationic amino acid transporter)	1.37	8.05E-06	up vs. Tam	T47D
	KPNA2	Karyopherin α2 (RAG1 cohort 1, importin α1)	1.36	8.49E-06	up vs. Tam	T47D
	C5orf13	Chromosome 5 open reading frame 13	1.31	2.57E-06	up vs. Tam	T47D
	KRT8	Keratin 8	1.28	9.46E-06	up vs. Tam	T47D
<b>G. Regulated by Tam+E2+TH relative to Tam</b>						
	GREB1	Growth regulation by E2 in breast cancer	1.91	6.01E-06	up vs. Tam	MCF7
	RAD51C	RAD51 homolog C	1.9	5.91E-06	up vs. Tam	MCF7
	RPL7A	Ribosomal protein L7a	1.83	5.62E-05	up vs. Tam	MCF7
	CKS1B	CD28 protein kinase regulatory subunit 1b	1.77	3.22E-05	up vs. Tam	MCF7
	GFRA1	GDNF family receptor α1	1.76	1.48E-05	up vs. Tam	MCF7
	HSP90AB1	Heat shock protein 90kDa alpha (cytosolic)class B member 1	1.68	5.68E-05	up vs. Tam	MCF7
	TFF1	Trefoil factor 1	1.62	9.18E-06	up vs. Tam	MCF7
	HSPA8	Heat shock 22kDa protein 8	1.52	4.47E-05	up vs. Tam	MCF7
	HIST1H2BH	Histone cluster 1 H2bh	1.45	3.02E-05	up vs. Tam	MCF7
	SNRPE	Small nuclear ribonucleoprotein polypeptide E	1.42	7.16E-05	up vs. Tam	MCF7
	STOML2	Stomatin (EPB72)-like 2	1.42	1.69E-05	up vs. Tam	MCF7
	RPSA	Ribosomal protein SA	1.37	4.38E-05	up vs. Tam	MCF7
	TUBB	Tubulin, β	1.34	1.37E-05	up vs. Tam	MCF7
	STC	Stanniocalcin	2.2	4.11E-13	up vs. Tam	T47D
	SEMA3C	Sema domain, immunoglobulin domain (Ig)	2.12	4.63E-05	up vs. Tam	T47D
	B4GALT1	UDP-Gal:βGlcNAc β 1,4-galactosyltransferase, polypeptide	1.86	3.58E-08	up vs. Tam	T47D
	PGR	progesterone receptor	1.8	2.37E-06	up vs. Tam	T47D
	SLC9A3R1	solute carrier family 9 member 3	1.77	2.97E-10	up vs. Tam	T47D
	SERPINA6	Serpin peptidase inhibitor, clade A	1.71	6.88E-10	up vs. Tam	T47D
	IGFBP5	insulin-like growth factor binding protein 5	1.66	3.07E-07	up vs. Tam	T47D
	IER1	Immediate early response 3	1.65	1.20E-08	up vs. Tam	T47D
	TTC39A	tetratricopeptide repeat domain 39A	1.65	8.50E-07	up vs. Tam	T47D
	IGFBP4	Insulin-like growth factor binding protein 4	1.63	4.64E-09	up vs. Tam	T47D
	JAK1	Janus kinase 1	1.62	3.53E-05	up vs. Tam	T47D
	FKBP4	FK506 binding protein 4	1.6	9.02E-12	up vs. Tam	T47D
	MBOAT1	Membrane bound O-acyltransferase domain containing 1	1.57	3.48E-08	up vs. Tam	T47D
	STEAP4	STEAP family member 4	-1.3	9.91E-06	down vs. Tam	T47D
	BAMBI	BMP and activin membrane-bound inhibitor homolog	-1.58	1.26E-10	down vs. Tam	T47D
	HCG27	HLA complex group 27	-1.25	4.11E-05	down vs. Tam	MCF7
	MRPL54	mitochondrial ribosomal protein L54	-1.28	6.64E-05	down vs. Tam	MCF7