|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | RefSeq | | **Gene Symbol** | **Gene Name** | **Fold Change** | **Direction relative to control** | | | **p-value** | **Cell line** |
| D. Regulated by Tam relative to vehicle | | | |  |  |  | | |  |  |
|  | NM\_003537 | | HIST1H3B | Histone cluster 1, H3B | -1.32 | Tam Down | | | 1.05E-05 | MCF7 |
|  | NM\_178014 | | TUBB | Tubulin B | -1.36 | Tam Down | | | 9.14E-06 | MCF7 |
|  | NM\_003225 | | TFF1 | Trefoli factor 1 (pS2) | -1.74 | Tam Down | | | 3.44E-06 | MCF7 |
|  | NM\_003524 | | HIST1H3B | Histone cluster 1, H2BH | -1.79 | Tam Down | | | 9.70E-07 | MCF7 |
|  | NM\_014668 | | GREB1 | Growth regulation by E2 in breast cancer | -1.79 | Tam Down | | | 9.70E-07 | MCF7 |
|  |  | |  |  |  |  | | |  |  |
| E. Regulated by Tam+E2 relative to Tam | | | |  |  |  | | |  |  |
|  | NM\_014668 | | GREB1 | Growth regulation by E2 in breast cancer | 1.83 | up vs. Tam | | | 9.99E-06 | MCF7 |
|  | NM\_005264 | | GFRA1 | GDNF family receptor alpha1 | 1.73 | up vs. Tam | | | 1.89E-05 | MCF7 |
|  | NM\_003225 | | TFF1 | Trefoli factor 1 (pS2) | 1.68 | up vs. Tam | | | 5.70E-06 | MCF7 |
|  | NM\_002014 | | FKBP4 | FK506 binding protein 4 | 1.5 | up vs. Tam | | | 1.49E-05 | MCF7 |
|  | NM\_178014 | | TUBB | Tubulin B | 1.35 | up vs. Tam | | | 1.07E-05 | MCF7 |
|  | NM\_198976 | | TH1L | TH1-like (drosophila) | 1.33 | up vs. Tam | | | 1.03E-05 | MCF7 |
|  | NM\_001096 | | ACLY | ATP citrate lyase | 1.32 | up vs. Tam | | | 1.54E-05 | MCF7 |
|  | NR\_024187 | | SUZ12P | Suppressor or zeste 12 homolog pseudogene | 1.2 | up vs. Tam | | | 2.84E-05 | MCF7 |
|  | NM\_001497 | | B4GALT1 | UDP-Gal:bGlcNAc b 1,4-galactosyltransferase, polypeptide | 1.83 | up vs. Tam | | | 2.37E-07 | T47D |
|  | NM\_002014 | | FKBP4 | FK506 binding protein 4 | 1.64 | up vs. Tam | | | 7.58E-09 | T47D |
|  | NM\_001756 | | SERPINA6 | Serpin peptidase inhibitor, clade A | 1.62 | up vs. Tam | | | 5.75E-08 | T47D |
|  | NM\_001552 | | IGFBP4 | Insulin like growth factor binding protein 4 | 1.51 | up vs. Tam | | | 4.01E-07 | T47D |
|  | NM\_003897 | | IER3 | Immediate early response 3 | 1.48 | up vs. Tam | | | 5.67E-06 | T47D |
|  | NM\_001144832 | | TTC39A | Tetratricopeptide repeat domain 39A | 1.42 | up vs. Tam | | | 8.41E-06 | T47D |
|  | NM\_005749 | | TOB1 | Transducer of ERBB2, 1 | 1.39 | up vs. Tam | | | 2.18E-06 | T47D |
|  | NM\_001909 | | CTSD | Cathepsin D | 1.38 | up vs. Tam | | | 9.48E-07 | T47D |
|  | NM\_001218 | | CA12 | Carbonic anhydrase XII | 1.36 | up vs. Tam | | | 3.64E-08 | T47D |
|  | NM\_080626 | | BRI3BP | BRI3 binding protein | 1.35 | up vs. Tam | | | 3.73E-06 | T47D |
|  | NM\_017771 | | PXK | PX domain containing serine/threonine kinase | 1.28 | up vs. Tam | | | 1.17E-05 | T47D |
|  | NM\_002276 | | KRT19 | Keratin 19 | 1.27 | up vs. Tam | | | 2.24E-05 | T47D |
|  | NM\_003714 | | STC2 | Stanniocalcin 2 | 1.25 | up vs. Tam | | | 2.09E-05 | T47D |
|  |  | |  |  |  |  | | |  |  |
| F. Regulated by Tam+TH relative to Tam | | | |  |  |  | | |  |  |
|  | NM\_003714 | | STC2 | Stanniocalcin 2 | 1.78 | up vs. Tam | | | 4.90E-11 | T47D |
|  | NM\_004566 | | PFKFB3 | 6-phosphofructo-2-kinase/fructose-2, 6-biphosphatase 3 | 1.44 | up vs. Tam | | | 3.10E-07 | T47D |
|  | NM\_004252 | | SLC9A3R1 | Solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 | 1.41 | up vs. Tam | | | 1.51E-07 | T47D |
|  | NM\_021202 | | TP53INP2 | Tumor protein p53 inducible nuclear protein 2 | 1.37 | up vs. Tam | | | 1.41E-05 | T47D |
|  | NM\_003486 | | SLC7A5 | Solute carrier family 7 (cationic amino acid transporter) | 1.37 | up vs. Tam | | | 8.05E-06 | T47D |
|  | NM\_002266 | | KPNA2 | Karyopherin a2 (RAG1 cohort 1, importin a1) | 1.36 | up vs. Tam | | | 8.49E-06 | T47D |
|  | NM\_004772 | | C5orf13 | Chromosome 5 open reading frame 13 | 1.31 | up vs. Tam | | | 2.57E-06 | T47D |
|  | NM\_002273 | | KRT8 | Keratin 8 | 1.28 | up vs. Tam | | | 9.46E-06 | T47D |
|  |  | |  |  |  |  | | |  |  |
| G. Regulated by Tam+E2+TH relative to Tam | | | |  |  |  | | |  |  |
|  | | NM\_014668 | GREB1 | Growth regulation by E2 in breast cancer | | | 1.91 | up vs. Tam | | | | 6.01E-06 | MCF7 |
|  | | NM\_058216 | RAD51C | RAD51 homolog C | | | 1.9 | up vs. Tam | | | | 5.91E-06 | MCF7 |
|  | | NM\_000972 | RPL7A | Ribosomal protein L7a | | | 1.83 | up vs. Tam | | | | 5.62E-05 | MCF7 |
|  | | NM\_001826 | CKS1B | CD28 protein kinase regulatory subunit 1b | | | 1.77 | up vs. Tam | | | | 3.22E-05 | MCF7 |
|  | | NM\_005264 | GFRA1 | GDNF family receptor a1 | | | 1.76 | up vs. Tam | | | | 1.48E-05 | MCF7 |
|  | | NM\_007355 | HSP90AB1 | Heat shock protein 90kDa alpha (cytosolic)class B member 1 | | | 1.68 | up vs. Tam | | | | 5.68E-05 | MCF7 |
|  | | NM\_003225 | TFF1 | Trefoil factor 1 | | | 1.62 | up vs. Tam | | | | 9.18E-06 | MCF7 |
|  | | NM\_006597 | HSPA8 | Heat shock 22kDa protein 8 | | | 1.52 | up vs. Tam | | | | 4.47E-05 | MCF7 |
|  | | NM\_003524 | HIST1H2BH | Histone cluster 1 H2bh | | | 1.45 | up vs. Tam | | | | 3.02E-05 | MCF7 |
|  | | NM\_003094 | SNRPE | Small nuclear ribonucleoprotein polypeptide E | | | 1.42 | up vs. Tam | | | | 7.16E-05 | MCF7 |
|  | | NM\_013442 | STOML2 | Stomatin (EPB72)-like 2 | | | 1.42 | up vs. Tam | | | | 1.69E-05 | MCF7 |
|  | | NM\_002295 | RPSA | Ribosomal protein SA | | | 1.37 | up vs. Tam | | | | 4.38E-05 | MCF7 |
|  | | NM\_178014 | TUBB | Tubulin, b | | | 1.34 | up vs. Tam | | | | 1.37E-05 | MCF7 |
|  | | NM\_003714 | STC | Stanniocalcin | | | 2.2 | up vs. Tam | | | | 3.88E-13 | T47D |
|  | | NM\_006379 | SEMA3C | Sema domain, immunoglobin domain (Ig) | | | 2.12 | up vs. Tam | | | | 1.78E-05 | T47D |
|  | | NM\_001497 | B4GALT1 | UDP-Gal:bGlcNAc b 1,4-galactosyltransferase, polypeptide | | | 1.86 | up vs. Tam | | | | 1.86E-07 | T47D |
|  | | NM\_000926 | PGR | progesterone receptor | | | 1.8 | up vs. Tam | | | | 1.29E-05 | T47D |
|  | | NM\_004252 | SLC9A3R1 | solute carrier family 9 member 3 | | | 1.77 | up vs. Tam | | | | 1.22E-10 | T47D |
|  | | NM\_001756 | SERPINA6 | Serpin peptidase inhibitor, clade A | | | 1.71 | up vs. Tam | | | | 1.44E-08 | T47D |
|  | | NM\_000599 | IGFBP5 | insulin-like growth factor binding protein 5 | | | 1.66 | up vs. Tam | | | | 1.12E-06 | T47D |
|  | | NM\_003897 | IER1 | Immediate early response 3 | | | 1.65 | up vs. Tam | | | | 2.42E-07 | T47D |
|  | | NM\_001144832 | TTC39A | tetraticopeptide repeat domain 39A | | | 1.65 | up vs. Tam | | | | 9.73E-08 | T47D |
|  | | NM\_001552 | IGFBP4 | Insulin-like growth factor binding protein 4 | | | 1.63 | up vs. Tam | | | | 4.20E-08 | T47D |
|  | | NM\_002227 | JAK1 | Janus kinase 1 | | | 1.62 | up vs. Tam | | | | 1.82E-05 | T47D |
|  | | NM\_002014 | FKBP4 | FK506 binding protein 4 | | | 1.6 | up vs. Tam | | | | 1.63E-08 | T47D |
|  | | NM\_001080480 | MBOAT1 | Membrane bound O-acyltransferase domain containing 1 | | | 1.57 | up vs. Tam | | | | 6.42E-07 | T47D |
|  | | NM\_024636 | STEAP4 | STEAP family member 4 | | | -1.3 | down vs. Tam | | | | 2.60E-06 | T47D |
|  | | NM\_012342 | BAMBI | BMP and activin membrane-bound inhibitor homolog | | | -1.58 | down vs. Tam | | | | 9.05E-06 | T47D |
|  | | NR\_026791 | HCG27 | HLA complex group 27 | | | -1.25 | down vs. Tam | | | | 6.64E-05 | MCF7 |
|  | | NM\_172251 | MRPL54 | mitochondrial ribosomal protein L54 | | | -1.28 | down vs. Tam | | | | 4.11E-05 | MCF7 |