

| Gene Symbol | Gene Name |
|-------------|---|
| AGR2 | anterior gradient 2 homolog (Xenopus laevis) |
| AR | androgen receptor |
| CCND1 | cyclin D1 |
| CDC20 | cell division cycle 20 |
| CDCA8 | cell division cycle associated 8 |
| CENPE | centromere protein E, 312kDa |
| CENPN | centromere protein N |
| COL1A2 | collagen, type I, alpha 2 |
| CPB1 | carboxypeptidase B1 (tissue) |
| ESR1 | estrogen receptor 1 |
| FOXA1 | forkhead box A1 |
| GATA3 | GATA binding protein 3 |
| GFRA1 | GDNF family receptor alpha 1 |
| HJURP | Holliday junction recognition protein |
| IRS1 | insulin receptor substrate 1 |
| KIF18A | kinesin family member 18A |
| KIF20A | kinesin family member 20A |
| KIFC1 | kinesin family member C1 |
| KRT15 | keratin 15 |
| KRT16 | keratin 16 |
| KRT17 | keratin 17 |
| KRT7 | keratin 7 |
| LYPD3 | LY6/PLAUR domain containing 3 |
| MELK | maternal embryonic leucine zipper kinase |
| MID1 | midline 1 (Opitz/BBB syndrome) |
| MYB | v-myb myeloblastosis viral oncogene homolog (avian) |
| MYBL2 | v-myb myeloblastosis viral oncogene homolog (avian)-like 2 |
| NDC80 | NDC80 kinetochore complex component |
| PGR | progesterone receptor |
| PLAT | plasminogen activator, tissue |
| RUVBL2 | RuvB-like 2 (E. coli) |
| S100A1 | S100 calcium binding protein A1 |
| S100A7 | S100 calcium binding protein A7 |
| SERPINA3 | serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3 |
| SERPINA5 | serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 5 |
| SERPINA6 | serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 6 |

Table S1. Full gene names for the gene symbols in Figure 1.