

Table S3. Changes in Expression of Cell Cycle Genes in Response to Dsg2

<u>G1 Phase and G1/S Transition:</u> Camk2a, Camk2b, Gpr132, Itgb1, Mtbp, Myb (C-MYB), Nfatc1 (-2.9) , Ppp2r3a, Ppp3ca (-2.4) , Skp2, Taf10, Slfn1
<u>S Phase and DNA Replication:</u> Dnajc2 (Zrf2), Mcm2, Mcm3 (2.8) , Mcm4 (2.8) , Mki67 (7.8) , Mre11a (2.5) , Msh2 (2.9) , Pcna, Rad17, Rad51 (4.3) , Sumo1.
<u>G2 Phase and G2/M Transition:</u> Dnajc2 (Zrf2), Chek1 (2.1) , Ppm1d.
<u>M Phase:</u> Brca2 (3.9) , Ccna1 (Cyclin A1, -2.0) , Ccnb1 (4.6) , Cdc25a, Cdc25b, Cdk2, Nek2, Npm2, Pes1, Prm1, Rad21, Ran, Shc1, Smc1a (Smc111), Stag1, Terf1, Tnfsf5ip1, Wee1.
<u>Cell Cycle Checkpoint and Cell Cycle Arrest:</u> Ak1, Apbb1, Brca2 (3.9) , Casp3, Cdk5rap1, Cdkn1a, Cdkn1b, Cdkn2a, Chek1 (2.1) , Cks1b (2.1) , Ddit3 (CHOP), Dst (-2.1) , Gadd45a, Hus1, Inha, Macf1, Mad211, Mdm2, Msh2 (2.9) , Notch2, Pkd1 (-2.1) , Pmp22 (-2.1) , Ppm1d (WIP1), Rad9, Sesn2 (Sestrin 2), Sfn (Stratifin), Slfn1, Smc1a (Smc111), Tsg101.
<u>Regulation of the Cell Cycle:</u> Abl1, Brca2, Ccna1 (-2.0) , Ccna2 (5.8) , Ccnb1 (4.6) , Ccnb2 (5.4) , Ccnc, Ccnd1, Ccne1 (2.6) , Ccnf, Cdk4, Cdkn1a, Cks1b, E2f1, E2f2, E2f3, E2f4, Gadd45a, Itgb1, Rad9, Ran, Sfn (Stratifin), Shc1, Skp2, Tfdp1, Tnfsf5ip1.
<u>Negative Regulation of the Cell Cycle:</u> Apbb1, Atm, Brca1 (3.9) , Casp3, Cdkn2a, Inha, Rbl1, Rbl2, Trp53, Trp63.

Listed are genes known to be involved in different phases of cell cycle regulation. In bold are genes with change greater, or less, than 2 fold in Dsg2 transgenic compared to control wild-type mice and in parentheses are fold change.