**Supplementary Table S2**: primer sequences used in this study

|  |  |  |
| --- | --- | --- |
| **Primers ChIP qPCRs** |  |  |
|  | Forward primer | Reverse primer |
| negcon\_1 | TGCCACACACCAGTGACTTT | ACAGCCAGAAGCTCCAAAAA |
| negcon\_2 | CTAGGAGGGTGGAGGTAGGG  | GCCCCAAACAGGAGTAATGA |
| negcon\_3 | TGGCCCTTGATACTGGAGTC | GACATCCAAGGCAAGATGGT |
| negcon\_4 | GCTGCTTTGGGAAATGGTTA | TGGTCGCAGGTTTCAACATA |
| RARA\_1 | CGCTGGGAACTTCTGTTCTT | AGGGCAGCTCAGATAACAGG |
| RARA\_2 | GCTGGGTCCTCTGGCTGTTC | CCGGGATAAAGCCACTCCAA |
| XBP1\_1 | ATACTTGGCAGCCTGTGACC | GGTCCACAAAGCAGGAAAAA |
| XBP1\_2 | TCTCTGGGCTGGCACCAT | GCGGTGCGTAGTCTGGAG |
| XBP1\_3 | CGGAGGACTAAGTGCTAGGC | GCTGAAATAACAGAGCTGTTGAAA |
| GREB1 | CAGCTGACTGTCTTCCACCA | AGCCCTGAAGTGTTTTGCTG |
| KLK3\_enh | GCCTGGATCTGAGAGAGATATCATC  | ACACCTTTTTTTTTCTGGATTGTTG |
| KLK2 | AGCATCTAGGTGCCAACAGG | GACAAGGCGATGGAGAGAAC |
| DDIT4 | CTAGAGCTCGCGGTCTGGTCTGGTCT | GGCGAAGAGGAGGTGGACGACGACGAGAAG |
| ARpeak\_chr12 | TGTGTCCCTGTTCTCAAGGG | CCCACTTTTGTTTGCCGAGG |
| CUX2 | GTTGATAGGCGGGTCTGGTG | CCCTCTGTCCCCTTGTTCTC |
| EEF2K | GCCCTTGCATGATGACAGTTT | TGCAGAAGCCAGAGATACGTC |
| ZBTB16 | CAGTGTGCTGTTCTCCGTCT | CAGACGCAGGGCATTTTACA |
| UBC  | GTAATGACGGGGCTTCCTTT | TGAGATCTGCCGAGTCATTG |
|  |  |  |
| **Primers differential sites FA vs DSG/FA H3K27ac ChIP qPCR** |  |
|  | Forward primer | Reverse primer |
| **MCF7/mamma tissue**  |  |  |
| shared\_1 (=RARA\_1) | CGCTGGGAACTTCTGTTCTT | AGGGCAGCTCAGATAACAGG |
| shared\_2 | CCAGAGAGTCGTGGCGTTTC | TCTGAGCGCAGCCTGTCTTA |
| DSG only | AGGGTTCAACTCAAGGGAATCAC | TGCACAATACCATCTCTCACAGT |
| DSG only\_2 | CACCCACCTCGCAGAATTGC | CTGGAGCCAGGATGTGAGCA |
| FA only | CCCACTCACTTGCTGTGTGA | TGGTGGACAACCTGGTTTGG |
| negcon\_3 | TGGCCCTTGATACTGGAGTC | GACATCCAAGGCAAGATGGT |
| **LNCaP/prostate tissue** |  |  |
| shared\_1 (=DDIT4) | CTAGAGCTCGCGGTCTGGTCTGGTCT | GGCGAAGAGGAGGTGGACGACGACGAGAAG |
| shared\_2 | AGCACAGGTAGGTTCCGCTC | GAGTGGGCTCGGTTCGAGAT |
| DSG only | GTTCCTGTCTGGCTCAAGGTTA | GTGCCTGTAGAGCCGAGTC |
| DSG only\_2 | CTCCATCAAATTACTCTGTCCAGC | CAAGGCTTGGGAAAGAGAGAATAAA |
| FA only | TGGGCTTTACTGAGGGGTGATT | GGATGTCTGACCAGGCTATGAG |
| negcon\_4 | GCTGCTTTGGGAAATGGTTA | TGGTCGCAGGTTTCAACATA |
| **endometrial tissue** |  |  |
| shared\_1 | AGTCAGACACTCTTGCGGCT | CTGGACCTCGCTGATTCGTG |
| shared\_2 | AGGGGAGACCTTTGGCCTAC | CTCTGACGCTTATCGACGCC |
| DSG only | GACCACTCTGCGGTCTACCC | CAAGGATAAGGCGCGAGGC |
| FA only | TCAGATAGCCCCACCGAAGG | GTGTTGGCCCCTCTATGAGC |
| negcon\_2 | CTAGGAGGGTGGAGGTAGGG  | GCCCCAAACAGGAGTAATGA |