

```
DAG1
                       CSRP1 PDLIM4 TPM3
SGCB MYL4 FLNC TNNI1 ATP1A2 XIRP2
               FBN3 BGN FMNL3 ZYX FHL1 TNNT3 MYH2
                   SSPN-SYNPO2 SPTBN SPTAN1 TPM4 LMNA
                           DES GOL4A4 TRIM63 MYOT SGCA
                         SGCD SGCG
Cytoskeleton in muscle cells VIM HMOX1 NOTCH1
                                                \CSRP3
                                                               PTGS2 ZEB2 TNR
                  SDC3
                                              TPM1 TĿŃ1 ABCC1 \ STAT3/ UBE2I
                                                   TLN2 MDM4 DNMT3AFZDEFNA5 MET ST14
                                         ITGA5
         SSH1, SCIN
                                                                                                     RAD21, PDS5A
                                     ITGB3 FBN1 IRS1-CASP3 NOTCH2 PRKCE TIMP3-RELB
                 \FGF1
                                          DCN DNMTBICER1BCL2L11 CYP1B1 IL2RG POLB CDC25A
                 LIMK2
ARPC4
                                                                                                          ///RBL2 SMC3
                                        CRK THBS1 RASSF1STMN1 SPRY2 KAT5 MAP2K4 CDCA5
                                                                                                      PCNA YWHAQ SMC1B size
 CDH5
                                      FGFR3 RDX DDIT4 ZFPM2 JUN
          CFL1 WASF2 —ARPC5L
                                                                                                   YWHAE MCM3
PPP2R5D—TIGRR ——CDC7
                                                                              SLC25A6DC25C-CDC20
CTNNA3
                                         APC APC2 GLS CANX STAT5B SRF CCND2 PTTG1
         SRC ACTR2 ITGAM
SIPA1 CLDN4 FGF10 MSN
                                    EZR PRKCB NFKB2-JAK3 HLA-DRB1NRP1CDKN2ACHEK2 CCNA2
                          BCAR1
                                                                                                       ORC6 CDK1 MCM4
THY1 AFDN
                 C7 ARHGAP35-VAV3 ROCK1 ITGB2 HLA-B-XPO1 ZFP36IDAC2 ANAPC4 CCND3 Cell cycle ESCO2 DDX11
CYBB VASP FGD3 PXN
                     RAC2 PTK2 RHOA ITGAL ICAM1 BMPR2 NFKB1IKBKB-SPI1 MAD1L1 — CCNB2 ZEB ERBB2 BCL2 MAP3K3 BRCA1 CHEK1
                                                                                                       CCNB1—TTK
                                                                                                                    GADD45B
OCLN NCF4
OCLN NCF4

C6

CXCR4

CXCL12

FGFR2

MAPK1

SHC1

BCL2L1

ATF2

ATF6B

RB1

JAM2

PFN2

ENAH

FGFR1

ARAF AKT3

NODAL

TGFBR2

CD40

CD4

GPS2

CDK2
                                                                                                          ORC4 SMC1A AURKB
                                                                                                     ESCO1 SFN STAG2
                                                                                                      PLK1-ZBTB17 WEE1
F11R MAPK14 TIAM1 PDGFC ZFYVE16 ADCY9 NFKBIA ETS1 TCF3-FOS
MMP2-CLDN3 WASL PDGFD ACVR2B BMP8A ADCY9 NFKBIA ETS1 TCF3-FOS
GNAI2 GNAI3 CTNNB1 GREM2ADCY6 ADCY4 IL1R2

GNAI2 GNAI3 PTK2B LTBP1—TGIE1 INHBA TFRC TF NRROS IL1R1

ARHGAP5 PTPN11 NCOR1 ID4 CHRDHBE BMPR1B EMP3

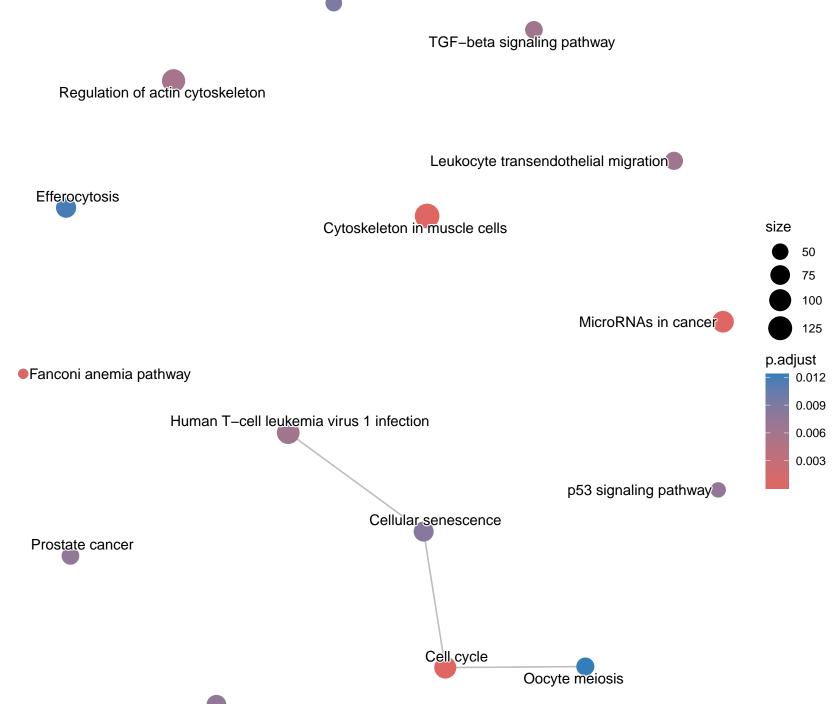
ARHGAP5 PTPN11 NCOR1 ID4 CHRDHBE
                                                                                                  STAG1-MCM2 BUB1-NDC80
                                                                                                   CDC14B MAU2
                                                                                    PPP2R1B
                                                                                                                       FANCM
                                                                                                   MCM7 /MTBP RMI2 /
                                                                                                        ORC1 RPA3 FANCE
                                        SKI BMP5 LRRC32EO1 THSD4-SMURF1
                                                                                                              RMI1
                                            BMP8B SKIL INHBB ACVR1B SP1
                                                                                    Fanconi anemia pathway FANCB
                AGPAT5
                                                                                                       FANCC \
           AGPAT2 AGT GRM8
                                                  RGMB FMOD NOG NBL1
                                                                                                     BRIP1
                                                                                                 ERCC1
WDR48
              DGKQ
                                             GRM5 SMAD9 SMAD5 INHBC SLC19A1
                                                                                               REV3L
                                  //TSC2
                                                   GRM1 ERG
                                                                                            POLK
                          FCER1A PLPP3 KIT\\
                                                      TCF7
                                                                                                      RRCA2
                                                                                              HES1 RAD51
                                               RALB
                                                                                FANCD2
                                                                                          /BLM /UBE2T
```

TOP3A'

RAD51C

100

120



Phospholipase D signaling pathway