



101 SECRETED PROTEINS PRESENT IN MUSE CELLS, BM MSC AND A MSC

FSTL1
 ACTN4
 MMP2
 ANXA2
 ENO1
 TAGLN
 VCL
 TKT
 COL3A1
 SERPINE1
 COL4A2
 LUM
 ANXA6
 ANXA1
 CLSTN1
 KRT9
 COL6A2
 PGAM1
 YWHAG
 MSN
 PSMB2
 PCOLCE
 VIM
 SERPINF1
 LGALS3BP
 LDHA
 SERPINE2
 QSOX1
 MFGE8
 A2M

KRT1
COL6A3
LAMB1
ISLR
COL1A1
PDIA3
POSTN
KRT10
AHSG
TALDO1
TAGLN2
PFN1
MDH1
KRT5
TIMP2
NT5E
P4HB
TPI1
COL6A1
SEMA7A
C3
IGFBP6
SPARC
IGFBP3
CLEC11A
COL5A1
HSPA5
ALB
CFL1
LAMA4
PIIB
SERPINC1
YWHAQ
LMNA
PIIA
PSMB6
ACTN1
PTX3
GAPDH
PDIA4
COMP
NUCB1
THBS1
LDHB
NME1-NME2
TGFB1
TIMP1
ACTG1
IGFBP7
PRDX1
PRDX4
BGN
ALDOA
HSPG2
HSP90B1
PSMB5
CST3
COL1A2
ARPC4-TTLL3
PSMA5
HSPA8

LAMC1
ANXA5
GDI2
VASN
FN1
PRDX2
YWHAB
YWHAZ
KRT2

29 SECRETED PROTEINS PRESENT IN MUSE CELLS AND BM MSC

PSMA2
KRT14
CYCS
CTSB
PSMA3
TPM1
YWHAE
KRT6B
PSMB1
TXN
PSMA6
SERPING1
CTSD
C4A/C4B
APEX1
PSMA7
ITIH2
PSMB4
NME1
MYDGF
FLNA
PEBP1
CHI3L1
S100A11
COL12A1
AFP
HBB
PNP
DCD

6 SECRETED PROTEINS PRESENT IN MUSE CELLS AND A MSC

CALU
RCN1
KRT16
SERPINA5
NID2
RPSA

91 SECRETED PROTEINS PRESENT IN BM MSC AND A MSC

HSPB1
CCT4
C1S
RDX
TLN1
EEF2
MAN1A1
PRDX3
NID1
FBLN1
H2AFJ
GANAB
LOX
PCBP1
LAMB2
OAF
PDIA6
TCP1
MMP3
CNDP2
DPYSL2
SERPINH1
FKBP10
COL5A2
PKM
NRP1
UBA1
TPM4
OLFML3
EXT2
INHBA
MXRA8
LOXL2
HNRNPA2B1
SDF4
MYL12A
EIF4A1
FSCN1
ABI3BP
APOE
ACLY
HSPD1
RPL12
DCN
CCDC80
IGFBP4
KPNB1
CLU
CCT2
EMILIN1
PXDN
MYH9
ATP5B
MDH2
NPM1
TGFB1
CCT8

B4GALT1
HMCN1
LTBP1
AEBP1
PLS3
FBN1
BMP1
THBS2
PLEC
EZR
PGD
HSP90AB1
VCP
FLNC
LASP1
ARPC1B
HNRNPA1
PAPPA
CLIC1
MMP1
CLTC
HTRA1
ECM1
EEF1G
EEF1A1
GARS
CD109
TP53I3
SRPX
HSP90AA1
EFEMP1
ACTR2
PGK1
PLOD1

56 SECRETED PROTEINS PRESENT IN MUSE CELLS

PSMA4
GOT2
KRT19
CSTA
PRKCSH
LCN1
JUP
SERPINB8
RPLP0
AKAP13
DSP
KRT77
KRT80
CAT
CALR
TTR
LYZ
GM2A
CASP14
GSS
B2M
ARG1

KRT4
IGKC
GNAS
KRT13
HIST3H3
TGM3
CALM1 (includes others)
PGLS
PSAT1
GSDMA
ITIH3
SERPINB6
CTSZ
AZGP1
DSC1
DSG1
COL2A1
APOD
GPI
SERPINB3
APOB
S100A8
HIST1H2BL
LTF
SERPINB12
KRT78
RPL18
PZP
LGALS7/LGALS7B
KRT6A
IGHG1
KRT17
KRT32
S100A9

145 SECRETED PROTEINS PRESENT IN BM MSC

RAB2A
MAGOH
AK1
DTD1
ACTR3
ARPC5
ATP6AP2
ARPC2
COL4A1
ISOC1
VCAN
MANF
CNN2
RAC1
YWHAH
CSRP1
RBMX
EDIL3
COTL1
MYL9
ACP1
MARCKS
HARS

PARK7
VEGFC
CHID1
CAPZA1
ERP29
PGM1
GLRX3
WARS
PRG4
RBM8A
CPNE1
PRDX6
GSTO1
ILF2
EIF2S1
PSMA1
PDLIM7
CORO1C
RPS20
CAPG
CLIC4
PPIC
RPL11
HIBCH
UCHL1
UBE2D3
EIF5A
COPE
SSC5D
BLVRA
TBCA
P3H1
HNRNPK
GBE1
CDC42
ACTA1
VTN
CTSA
CAPZA2
LGALS1
FLNB
UBE2V1
STC2
CALD1
PSMD2
DSTN
WDR1
DDX39B
EDF1
NACA
TPM3
RAB10
NEO1
LGALS3
CFL2
RPS28
KCTD12
IQGAP1
UBE2V2
THBS3
CMPK1

CPA4
FNDC1
RBM3
COL11A1
CEMIP
RPS12
TWF1
ARF4
CXCL12
AKR1A1
PPP2R1A
CTHRC1
G6PD
PSME2
HNRNPAB
SYNCRIP
GALNT5
GNB2L1
GAS6
PENK
MAPRE1
CFH
PGM3
BTF3
TXNDC17
PLOD2
CDH2
PPP1CB
PAFAH1B2
HSPE1
GNG12
BAX
COL7A1
ABHD14B
CNN3
FKBP1A
PIN4
ADAMTS2
ARPC3
IGFBP5
COL8A1
GSTP1
CTGF
CAPZB
PTBP1
DPYSL3
SNX3
COLEC12
STMN1
ANGPT1
PDLIM5
PSME1
CAB39
RSU1
TMED10
RPS21
S100A10
RAB7A
LOXL1
CBR1
SNRPD2

51 SECRETED PROTEINS PRESENT IN A MSC

SEC23A
LTBP2
RPS18
LAMA2
RNH1
EXT1
CD248
TUBA1A
ARHGDIA
GNAI2
UGDH
NUCB2
TUBB4B
FBN2
PSG5
HK1
EEF1D
HEXB
SEPT11
SRI
APOH
SOD3
TXNDC5
SRSF1
XRCC6
TUBB3
ENPP2
C1QTNF5
FBLN2
VAT1
UBA52
ERO1A
SPTBN1
SND1
PCOLCE2
RPS14
PLOD3
HEXA
SLC3A2
ADAMTSL1
SPTAN1
HIST1H2AC
CCT6A
ANPEP
PSG4
GPC1
APP
MVP
SPON2
SPOCK1
CCT7