

Appendix 2

Gene Symbol	Gene Name	fold change	fold change
		(CNTF-SM)	(FBS-SM)
Cell Cycle:			
AURKA	Aurora kinase A	-4.45*	-1.29
BIRC5	Baculoviral IAP repeat-containing protein 5	-3.29*	-1.21
CCNA2	Cyclin A2	-4.88*	-1.26
CCNB1	G2/mitotic-specific cyclin B1	-4.01*	-1.18
CCNB2	G2/mitotic-specific cyclin B2	-5.42*	-1.22
CCNB3	G2/mitotic-specific cyclin B3	-3.91*	-1.21
CCND2	G1/S-specific cyclin D2	-2.58*	-1.16
CCNE1	G1/S-specific cyclin E1	-2.38*	-1.05
CCNF	G2/mitotic-specific cyclin F	-3.45*	-1.22
CDC2	Cell division cycle protein 2	-4.45*	-1.18
CDC6	Cell division cycle protein 6	-3.89*	-1.10
CDC7	Cell division cycle 7-related protein kinase	-2.01*	-1.15
CDCA2	Cell division cycle associated 2	-4.73*	-1.17
CDK2	Cell division protein kinase 2	-2.16*	1.16
CDK6	Cell division protein kinase 6	-2.06*	-1.02
CDKN1C	Cyclin-dependent kinase inhibitor 1C	1.63	-2.24*
CDKN2A	Cyclin-dependent kinase inhibitor 2A	-2.34*	1.17
CDKN2C	Cyclin-dependent kinase inhibitor 2C	-2.35*	-1.24
CDKN3	Cyclin-dependent kinase inhibitor 3	-2.39*	-1.17
CHEK1	Serine/threonine-protein kinase Chk1	-4.79*	-1.67
CHEK2	Serine/threonine-protein kinase Chk2	-3.02*	-1.30
GTSE1	G2 and S phase expressed protein 1	-4.68*	-1.21
KPNA2	Karyopherin alpha 2	-4.71*	-1.34
MAD2L1	Mitotic arrest deficient 2-like 1	-3.88*	-1.24
MCM2	DNA replication licensing factor MCM2	-3.69*	-1.11
MCM4	DNA replication licensing factor MCM4	-3.83*	1.09
MCM5	DNA replication licensing factor MCM5	-4.58*	-1.05
Progenitor Markers:			
CLDN11	Claudin 11	16.33*	1.43
KIT	Mast/stem cell growth factor receptor (CD117)	9.47*	6.68*
KLF4	Kruppel-like factor 4	-3.42*	-1.33
MYCN	N-myc proto-oncogene	5.07*	4.05*
NES	Nestin	-4.85*	-1.37
DNA/Transcription Regulation:			
ELAVL2	ELAV-like 2	10.05*	5.96*
FLI1	Friend leukemia integration 1 transcription factor	42.90*	13.54*
MAFB	Transcription factor MafB	12.93*	5.22*
MEF2C	Myocyte enhancer factor 2C	5.48*	4.00*
RNASET2	Ribonuclease T2	7.72*	3.59*
RUNX1T1	Protein MTG8	16.91*	7.69*
SOX11	Transcription factor SOX-11	2.32*	1.74
TBR1	T-brain-1 protein (TBR-1)	3.90*	1.66
TCEAL2	Transcription elongation factor A protein-like 2	7.07*	4.96*

TOPOII	DNA topoisomerase II	-3.37*	-1.31
Surface Antigens:			
SLA-B	MHC class I histocompatibility antigen	2.36*	6.47*
SLA-DMB	MHC class II histocompatibility antigen	15.33*	7.92*
SLA-DQA1	MHC class II histocompatibility antigen	7.60*	5.56*
SLA-DQB1	MHC class II histocompatibility antigen	34.68*	15.76*
SLA-DRA	MHC class II histocompatibility antigen	42.15*	26.19*
SLA-DRB1	MHC class II histocompatibility antigen	817.21*	481.88*
Cell Signaling:			
BMP2	Bone morphogenic protein 2	4.29*	1.75
CCL3L1	Chemokine (C-C motif) ligand 3-like 1	7.80*	3.43*
CCR1	Chemokine (C-C motif) receptor 1	4.53*	2.33*
CD14	CD14 molecule	3.96*	1.60
CD74	CD74 antigen	18.22*	8.12*
CD180	CD180 molecule	5.14*	2.86
CRABP1	Cellular retinoic acid binding protein 1	7.83*	5.35*
CXCL2	Chemokine (C-X-C motif) ligand 2	4.19*	10.56*
IL7R	Interleukin 7 receptor	3.91*	5.69*
IL8	Interleukin 8	46.89	200.66*
IL13RA1	Interleukin 13 Receptor alpha 1	3.62*	2.09*
IL16	Interleukin 16	2.81*	1.80
RXRG	Retinoid X receptor, gamma	12.38*	3.65*
TLR2	Toll-like receptor 2	8.08*	4.91
Wnt Pathway:			
APC	Adenomatous polyposis coli protein	2.05*	1.10
DIXDC1	DIX domain containing 1	-3.31*	-1.25
DKK1	Dickkopf-related protein 1	-16.54*	-8.93*
DKK2	Dickkopf-related protein 2	1.45	3.94*
FRZB	Frizzled-related protein	2.25*	3.56*
FZD5	Frizzled 5	1.98	3.08*
FZD6	Frizzled 6	1.94	2.16*
FZD8	Frizzled 8	2.75*	1.69
LEF1	Lymphoid enhancer binding factor 1	-6.65*	-2.84*
TCF7L1	Transcription factor 7-like 1	3.50*	2.33*
WIF1	Wnt inhibitory factor 1	2.51*	3.69*
WNT2B	Wnt 2B	2.38*	3.81*
WNT4	Wnt 4	4.32*	2.26*
WNT5B	Wnt 5B	2.45*	2.58*
Astrocyte Markers			
AQP4	Aquaporin 4	15.27*	14.57*
GFAP	Glial fibrillary acidic protein	5.05*	7.13*
Oligodendrocyte Markers			
MAG	Myelin-associated glycoprotein	13.36*	-1.03
MBP	Myelin basic protein	8.81*	1.26
MOBP	Myelin-associated oligodendrocyte basic protein	24.21*	12.08*
TYROBP	TYRO protein tyrosine kinase binding protein	97.51*	32.70*
Neuron Markers:			
DCX	Doublecortin	5.16*	2.77*

INA	Internexin alpha	12.17*	4.58*
L1CAM	Neural cell adhesion molecule L1	3.80*	1.74
MAPT	Microtubule-associated protein tau	5.34*	3.04*
NEFL	Neurofilament light peptide	1.71	2.74*
NEFM	Neurofilament medium peptide	-2.35*	6.56*
RELN	Reelin	1.47	2.97*
STMN2	Stathmin 2	6.36*	3.13*
TUBB3	Tubulin, beta 3	2.08*	2.07*
Axon/Neurite Projection Markers:			
EPHA4	EPH receptor A4	2.52*	1.38
NDRG2	NDRG2 protein	2.70*	2.24*
NRN1	Neuritin	2.89*	1.75
NRSN1	Neurensin 1	2.72*	1.48
ROBO1	Roundabout homolog 1	2.66*	1.99
Synapse:			
SCG2	Secretogranin II	4.50*	4.30*
SH3GL3	SH3-containing GRB2-like protein 3	17.34*	2.12*
SVOP	Senaptic Vesicle-2 related protein	9.66*	5.79*
SYNPO2	Synaptopodin-2	2.38*	3.55*
SYNPR	Synaptoporin	3.44*	2.60*
SYT1	Synaptotagmin-1	7.45*	3.05*