

Supplementary Table S1. List and sequence of primers for the genes analyzed.

<u>Primer</u>	<u>Sequence</u>	<u>Length</u>
GAPDH F	5'- AAT GGT GAA GGT CGG TGT G - 3'	19
GAPDH R	5'- GTG GAG TCA TAC TGG AAC ATG TAG - 3'	24
β- ACTIN F	5'- CTG AAC CCT AAG GCC AAC C - 3'	19
β- ACTIN R	5'- GTA CGA CCA GAG GCA TAC AG - 3'	20
OCT4 F	5'- GGC ACT TCA GAA ACA TGG TCT - 3'	21
OCT4 R	5'- GAA GCC GAC AAC AAT GAG AAC - 3'	21
Nanog F	5'- AGC CGT TGG CCT TCA GAT AG - 3'	20
Nanog R	5'- AAG TCA GAA GGA AGT GAG CCG - 3'	21
WNT8A F	5'- TTC CAA GTC ACC CAT GCT G - 3'	19
WNT8A R	5'- GCT TTT CAG TTT TCA ACC CAC A - 3'	22
WNT1 F	5'- GGA GGT GAT TGC GAA GAT GA - 3'	20
WNT1 R	5'- CAA ATG GCA ATT CCG AAA CCG - 3'	21
SOX1 F	5'- GGC AGT CAT ACA AAA GTT GGC - 3'	21
SOX1 R	5'- GTA CAG TAT TTA TCG TCC GCA GA - 3'	23
CDH2 F	5'- CTG CGC TGT AAA CAT CTT CAG - 3'	21
CDH2 R	5'- CTC CAT GTG CCG GAT AGC - 3'	18

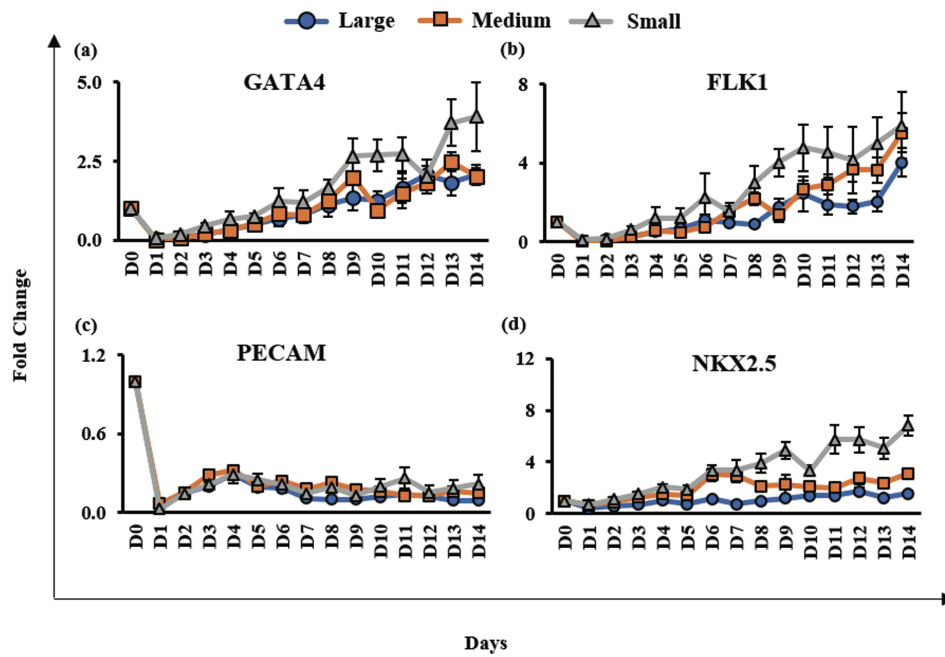
NESTIN F	5'- GGA AAG CCA AGA GAA GCC T - 3'	19
NESTIN R	5'- CAC CTC AAG ATG TCC CTT AGT C - 3'	22
NCAM F	5'- TTC AAG ACA CAG CCA GTC CG - 3'	20
NCAM R	5'- TGA TGG AGT TCC CGT CCT CT - 3'	20
TuJ F	5'- TCC GAG TAC CAG CAG TAC CA - 3'	20
TuJ R	5'- GGC TTC CGA TTC CTC GTC AT - 3'	20
PAX6 F	5'- GAT CTC ACA CAT CTG CTC ACC - 3'	21
PAX6 R	5'- CCC ACA ACT CTA TCT TGC GAA - 3'	21
NOTCH1 F	5'- CCC GCT GTG AGA TTG ATG TTA - 3'	21
NOTCH1 R	5'- CAC CTT CAT AAC CTG GCA TAC A - 3'	22
NOTCH2 F	5'- CAC CAT CCA CAC AAA CTC CT - 3'	20
NOTCH2 R	5'- CGA CTT CAC TTT CGA ATG CAA C - 3'	22
NOTCH3 F	5'- TCA TTG ATC TCC ACG TTG CAG - 3'	21
NOTCH3 R	5'- CTT TGG AGT TTG CCG TGA TG - 3'	20
GAP43 F	5'- AGG AGG AGA AAG ACG CTG TA - 3'	20
GAP43 R	5'- TCA GGC ATG TTC TTG GTC AG - 3'	20
NeuN F	5'- CTT ATG GAG CGG TCG TGT ATC - 3'	21
NeuN R	5'- GCT GGC TGA GCA TAT CTG TAA - 3'	21
MAP2 F	5'- GTG ACT TTA TCC TTC GCC TGT - 3'	21

MAP2 R	5'- AAC AGC TAA TCT GCC ACC TTC - 3'	21
TH F	5'- CTG GAT ACG AGA GGC ATA GTT C - 3'	22
TH R	5'- CCC TAC CAA GAT CAA ACC TAC C - 3'	22
GFAP F	5'- GCG ATA GTC GTT AGC TTC GTG - 3'	21
GFAP R	5'- CCA CCA GTA ACA TGC AAG AGA - 3'	21
SYNAPTOPHYSIN F	5'- TTT GGA GGG TGA GCG AAA TG - 3'	20
SYNAPTOPHYSIN R	5'- AGA GAA AGG GTG GAG AAG GTA G - 3'	22
OLIG F	5'- TCC AGA CTT CTC TCC CAG AC - 3'	20
OLIG R	5'- AGC AAC TAC ATC GCT CCT TG - 3'	20
CHAT F	5'- AGT CAG TGG GAA TGG ATT GG - 3'	20
CHAT R	5'- TTC CAA GAC ACC AAT GAC CAG - 3'	21
GAD1 F	5'- CTT GGC GTA GAG GTA ATC AGC - 3'	21
GAD1 R	5'- GGA CAT CTT CAA GTT CTG GCT - 3'	21
NKX2-5 F	5'- CAG CTC CAC TGC CTT CTG - 3'	18
NKX2-5 R	5'- CCA AGT GCT CTC CTG CTT T - 3'	19
GATA4 F	5'- ACG GAA GCC CAA GAA CCT GA - 3'	20
GATA4 R	5'- AGC TGC TGT GCC CAT AGT GA - 3'	20
FLK1 F	5'- CTA CCT CAC CTG TTT CCT GTA TG - 3'	23
FLK1 R	5'- GGC TCT TTC GCT TAC TGT TCT - 3'	21

PECAM1 F	5'- TGT TGG AGT TCA GAA GTG GAG - 3'	21
PECAM1 R	5'- TCA TTG GAG TGG TCA TCG C - 3'	19

Abbreviations:

GAPDH: Glyceraldehyde 3-phosphate dehydrogenase; Oct4: Octamer binding transcription factor 4; Wnt: Wingless type MMTV integration site family member; Sox1: Sex determining region Y-box1; Pax6: Paired box protein 6; CDH2: Cadherin 2; NCAM: Neural cell adhesion molecule; Tuj: class III β tubulin; GAD1: Glutamate decarboxylase 1; NeuN: Neuronal nucleus antigen; TH: Tyrosine Hydroxylase; ChAT: Choline Acetyltransferase, MAP2: Microtubule associated protein 2; GAP43: Growth associated protein 43; GFAP: Glial fibrillary acidic protein; OLIG1: Oligodendrocyte transcription factor 1; NKX 2-5: NK2 homeobox 5; GATA4: GATA binding protein 4; FLK1: Fetal liver kinase 1, PECAM: Platelet endothelial cell adhesion molecule; F: forward sequence; R: Reverse sequence.



Supplementary Figure S1. mRNA fold change values of mesodermal markers during the two-week culture period.