iPSC MS cell lines p11

## **Primers:**

<u>Nestin</u> (ectoderm, 111bp) – Intermediate filament gene specifically expressed in neuroepithelial stem cells (Lendahl et al. 1990, Cell).

<u>PAX6</u> (ectoderm, 147bp) – Paired box gene 6, uniformly expressed in early human neuroectoderm cells (Zhang et al. 2010, Cell Stem Cell).

 $\underline{T}$  (mesoderm, 118bp) – T-box gene, transcription factor required in a range of early mesoderm cell fate and development (ref).

MesP1 (mesoderm, 100bp) – Transcription factor initiating mesoderm formation (Saga et al. 1996, Development) and specifying cardiac, hematopoietic and skeletal myogenic cell fate (Chan et al. 2014, Cell Stem Cell).

<u>GATA-4</u> (mesoderm, 112bp) – codes for GATA binding protein 4, expressed in early precardiac mesoderm (Patient and McGhee, 2002).

 $\underline{\mathsf{AFP}}$  (endoderm, 100bp) –  $\alpha$ -fetoprotein, a serum glycoprotein secreted by the visceral endoderm.  $\underline{\mathsf{HNF4a}}$  (endoderm, 128bp) – Hepatocyte nuclear factor 4 alpha, transcription factor involved in endoderm differentiation and liver development (Hanawa et al. 2017).

<u>GAPDH</u> – (house-keeping/constitutive gene, 153bp).



