

**Table S1** Cell culture media and buffer composition

<b>hESC Media</b>		
	KO DMEM/F-12	Thermo Fisher Scientific
15%	Knockout Serum Replacement (KSR)	Thermo Fisher Scientific
2 mmol/L	L-Glutamine	Thermo Fisher Scientific
1x	MEM Non-Essential Amino Acids Solution (MEM-NEAA)	Thermo Fisher Scientific
0.5%	Penicillin-Streptomycin	Thermo Fisher Scientific
100 µmol/L	β-2 Mercaptoethanol	Sigma-Aldrich
10 ng/mL	Human Recombinant Basic Fibroblast Growth Factor-2 (bFGF)	Thermo Fisher Scientific

<b>EB Media</b>		
	KO DMEM/F-12	Thermo Fisher Scientific
15%	Knockout Serum Replacement (KSR)	Thermo Fisher Scientific
2 mmol/L	L-Glutamine	Thermo Fisher Scientific
1x	MEM Non-Essential Amino Acids Solution (MEM-NEAA)	Thermo Fisher Scientific
0.5%	Penicillin-Streptomycin	Thermo Fisher Scientific
100 µmol/L	β-2 Mercaptoethanol	Sigma-Aldrich

<b>NSC Media</b>		
	DMEM/F12	Corning
2 mmol/L	L-Glutamine	Thermo Fisher Scientific
1x	MEM Non-Essential Amino Acids Solution (MEM-NEAA)	Thermo Fisher Scientific
0.5%	Penicillin-Streptomycin	Thermo Fisher Scientific
0.5x	N2 Media Supplement	Thermo Fisher Scientific
0.5x	B27 Media Supplement	Thermo Fisher Scientific
20 ng/mL	Human Recombinant Basic Fibroblast Growth Factor-2 (bFGF)	Thermo Fisher Scientific

<b>Neuron Differentiation Media</b>		
	DMEM/F12	Thermo Fisher Scientific

2 mmol/L	L-Glutamine	Thermo Fisher Scientific
1x	MEM Non-Essential Amino Acids Solution (MEM-NEAA)	Thermo Fisher Scientific
0.5%	Penicillin-Streptomycin	Thermo Fisher Scientific
0.5x	N2 Media Supplement	Thermo Fisher Scientific
0.5x	B27 Media Supplement	Thermo Fisher Scientific
10ng/ml	Recombinant Human BDNF	PeproTech
10ng/ml	Recombinant Human GDNF	PeproTech
0.5M	cAMP	Sigma-Aldrich

<b>Astrocyte differentiation media</b>		
	DMEM-Glutamax	Thermo Fisher Scientific
10%	FBS	Thermo Fisher Scientific
0.4%	N2 Media Supplement	Thermo Fisher Scientific

<b>Cell Culture Coating and Dilutions</b>		
1:4 in Sterile Water	Poly-L-Ornithine	Sigma-Aldrich
1:200 in PBS	Laminin (1mg/ml)	Sigma-Aldrich

<b>FACS Buffer</b>		
	PBS	Thermo Fisher Scientific
2%	FBS	Thermo Fisher Scientific
1%	EDTA	Thermo Fisher Scientific

<b>FACS Blocking Buffer</b>		
	FACS Buffer	
10%	Mouse Serum	Sigma-Aldrich