

Materials List for

# Production of Human Neurogenin 2-Inducible Neurons in a Three-Dimensional Suspension Bioreactor

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## Materials

Name	Company	Catalog Number	Comments
2-Mercaptoethanol 50 mM	Gibco	11528926	
60 mm Nunclon Delta Surface	Nunc	734-2040	
Anti-beta III Tubulin antibody [TU-20] (dilution 1:1,000)	Abcam	ab7751	
Applied Biosystems High-Capacity cDNA Reverse Transcription Kit	Thermo Fisher Scientific	10400745	
B-27 Supplement (50x)	Gibco	11530536	serum-free Supplement (50x)
BIONI010-C-13 hiPSC line	European Bank for induced pluripotent Stem Cell (EBiSC), BIONEER as Depositor	SAMEA103988285	Bioneer is depositor in EBiSC and owner of the hiPSC line.
Biorender	Biorender.com		
BSA Cell Culture grade	Thermo Fisher Scientific	12330023	
CERO 3D Incubator & Bioreactor	OLS OMNI Life Science	2800000	
CEROTubes Cell culture Tubes 50 mL	OLS OMNI Life Science	2800005	
Citavi 6	Swiss Academic Software		
CryoStor CS10	Stemcell	7930	freezing medium containing 10% DMSO
Cytofix Fixation Solution	BD Biosciences	554655	fixation solution containing 4% paraformaldehyde
DAPI (NUCBLUE FIXED CELL STAIN)	Thermo Fisher Scientific	12333553	
Doxycycline hydrochloride (DOX)	Sigma-Aldrich	D3447	
DPBS without Calcium and Magnesium (DPBS -/-)	Gibco	14190250	
DPBS with Calcium and Magnesium (DPBS +/-)	Gibco	11580456	
DMEM/F12 (-/-)	Gibco	21331-020	
DMEM/F-12, GlutaMAX Supplement	Gibco	31331-028	
EVOS XL Core Cell Imaging System	Thermo Fisher Scientific		

Goat anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 555	Thermo Fisher Scientific	A21424	
GlutaMAX supplement	Gibco	35050-038	stabilized L-alanyl-L-glutamine dipeptid
ImageJ 1.51v	National Institute of Health		
Insulin solution human	Sigma-Aldrich	I9278I	
Laminin	Merck	L2020	
MACSQuant Analyzer	Miltenyi		
MAP2 Monoclonal Antibody (dilution 1: 300)	Thermo Fisher Scientific	13-1500	
Matrigel Growth factor reduced, phenol-red free	Corning Life Science	356231	basement membrane matrix
MEM Non-Essential Amino Acids Solution (100x)	Gibco	11140035	
MicroAmp Optical Adhesive Film Kit	Thermo Fisher Scientific	10095714	
mTeSR1	Stemcell	85850	feeder-free iPSC maintenance medium
N-2 Supplement (100x)	Gibco	17502-048	serum-free Supplement based on Bottenstein's N-1 formulation
Neurobasal Medium	Gibco	11570556	
Nikon Eclipse TS2	Nikon Instruments Europe B.V.		
NucleoCounter-NC200	ChemoMetec A/S		
Origin 2021	OriginLab		
Penicillin-Streptomycin	Gibco	11548876	
Perm/Wash Buffer	BD Biosciences	554723	
Primer assay TUBB3(Hs00801390_s1)	Thermo Fisher Scientific	11620099	
Primer assay GAPDH (Hs99999905_m1)	Thermo Fisher Scientific	11620099	
Primer assay GUSB (Hs99999908_m1)	Thermo Fisher Scientific	11620099	
Primer assay HPRT1 (Hs99999909_m1)	Thermo Fisher Scientific	11620099	
Primer assay MAP2 (Hs00258900_m1)	Thermo Fisher Scientific	11620099	
Primer assay MAPT (Hs00902194_m1)	Thermo Fisher Scientific	11620099	
Primer assay POU5F1 (Hs04260367_gH)	Thermo Fisher Scientific	11620099	
Poly-L-ornithine 0.01%	Merck	P4957	
RNeasy Plus Micro Kit (50)-Kit	Qiagen	74034	column-based RNA isolation kit
RLT Buffer	Qiagen	79216	cell lysis buffer
Sodium Pyruvat (100 mM)	Gibco	12539059	
StemPro Accutase	Gibco	11599686	cell dissociation enzyme
TAQMAN FAST ADVANCED MASTER MIX	Thermo Fisher Scientific	11380912	qPCR master mix
Triton-X-100	Sigma-Aldrich	T8787	
TrypLE Select Enzym	Gibco	12563-011	Trypsin-EDTA solution
UltraPure 0.5 M EDTA, pH 8.0	Thermo Fisher Scientific	AM9260G	

Via1-Cassette	ChemoMetec A/S	941-0012	
Wide Bore Filtered Pipette Tips	Thermo Fisher Scientific	10088880	
X20 OPTICAL 96WELL FAST CLEAR REACTION PLATES	Thermo Fisher Scientific	15206343	
Y-27632 dihydrochloride, Rho kinase inhibitor (ROCK inhibitor)	Abcam	ab120129	