

Materials List for:

Production and Use of Lentivirus to Selectively Transduce Primary Oligodendrocyte Precursor Cells for *In Vitro* Myelination Assays

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Materials

Name	Company	Catalog Number	Comments
2K7 lentivector			Kind gift from Dr Suter ⁹
5-Fluoro-2'-deoxyuridine	Sigma-Aldrich	F0503-100mg	
Alexa Fluor 488 Goat anti-mouse IgG	Jackson ImmunoResearch	115545205	
Alexa Fluor 488 goat anti-rabbit IgG (H+L)	Life Technologies	A11008	
Alexa Fluor 594 goat anti-mouse IgG (H+L)	Life Technologies	A11005	
Alexa Fluor 594 goat anti-rabbit IgG (H+L)	Life Technologies	A11012	
Ampicillin	Sigma-Aldrich	A9518-5G	
B27 - NeuroCul SM1 Neuronal Supplement	Stem Cell Technologies	5711	
BDNF (Human)	Peprtech	PT450021000	
Biotin (d-Biotin)	Sigma Aldrich	B4639	
Bradford Reagent	Sigma Aldrich	B6916-500ML	
BSA	Sigma Aldrich	A4161	
Chloramphenicol	Sigma-Aldrich	C0378-100G	
CNTF	Peprtech	450-13020	
DAKO fluorescence mounting media	DAKO	S302380-2	
DMEM, high glucose, pyruvate, no glutamine	Life Technologies	10313039	
DNase	Sigma-Aldrich	D5025-375KU	
DPBS	Life Technologies	14190250	
DPBS, calcium, magnesium	Life Technologies	14040182	
EBSS	Life Technologies	14155063	
EcoRI-HF	NEB	R3101	
Entry vectors for promoter and gene of interest			Generate as per protocols 1-2
Fetal Bovine Serum	Sigma-Aldrich	12003C	
Forskolin	Sigma Aldrich	F6886-50MG	
Glucose (D-glucose)	Sigma-Aldrich	G7528	
Glycerol	Chem Supply	GL010-500M	See stock solutions
Goat Anti-Mouse IgG	Jackson ImmunoResearch	115005003	
Goat Anti-Mouse IgM	Jackson ImmunoResearch	115005020	

Goat Anti-Rat IgG	Jackson ImmunoResearch	112005167	
Hoechst 33342	Life Technologies	H3570	
Igepal	Sigma Aldrich	I3021-100ML	
Insulin	Sigma Aldrich	I6634	
Kanamycin	Sigma-Aldrich	60615	
Laminin	Life Technologies	23017015	
LB Medium			See stock solutions
LB-Agar			See stock solutions
L-Cysteine	Sigma-Aldrich	C-7477	
Leibovitz's L-15 Medium	Life Technologies	11415064	
L-Glutamate	Sigma-Aldrich	G1626	
L-Glutamine- 200 mM (100x) liquid	Life Technologies	25030081	
LR Clonase II Plus enzyme	Life Technologies	12538-120	
MEM, NEAA, no Glutamine	Life Technologies	10370088	
Mouse α β III Tubulin	Promega	G7121	
Mouse α MBP (monoclonal)	Millipore	MAB381	
Na pyruvate	Life Technologies	11360-070	
NAC	Sigma Aldrich	A8199	
NcoI-HF	NEB	R3193S	
NEBuffer 4	NEB	B7004S	
Neurobasal medium	Life Technologies	21103049	
NGF (mouse)	Alomone Labs	N-100	
NT-3	Peprotech	450-03	
O1 antibody - Mouse anti-O1	Millipore	MAB344	Alternative if O1 hybridoma cells are unavailable
O1 hybridoma cells			Conditioned medium containing anti-O1 antibody to be used for immunopanning
O4 antibody - Mouse anti-O4	Millipore	MAB345	Alternative if O4 hybridoma cells are unavailable
O4 hybridoma cells			Conditioned medium containing anti-O4 antibody to be used for immunopanning
Competent cells	Life Technologies	A10460	
One Shot Stbl competent cells	Life Technologies	C7373-03	
Papain Suspension	Worthington/Cooper	LS003126	
pBR8.91			Kind gift from Dr Denham ¹⁰
PDGF-AA (Human)	Peprotech	PT10013A500	
Penicillin-streptomycin 100x solution	Life Technologies	15140122	
pENTRY4IRES2GFP	Invitrogen	11818-010	
pMD2.G	Addgene	12259	
Poly-D-lysine	Sigma	P6407-5MG	
Polyethylenimine (PEI)	Sigma-Aldrich	408727-100ML	
Poly-L-ornithine	Sigma Aldrich	P3655	
Progesterone	Sigma Aldrich	P8783	
Protease inhibitor tablet (Complete mini)	Roche	11836153001	

Proteinase K			Supplied with Clonase enzyme
Putrescine	Sigma Aldrich	P-5780	
Rabbit α neurofilament	Millipore	AB1987	
Rabbit α MBP (polyclonal)	Millipore	AB980	
Ran2 hybridoma cells	ATCC	TIB-119	Conditioned medium containing anti-Ran2 antibody to be used for immunopanning
Rat anti CD140A/PDGFR α antibody	BD Pharmingen	558774	
SacII	NEB	R0157	
SOC medium			Supplied with competent bacteria
Sodium selenite	Sigma Aldrich	S5261	
Spe I	NEB	R0133S	
T4 DNA Ligase	NEB	M0202S	
T4 DNA Ligase Buffer	NEB	B0202S	
TE buffer pH8			See stock solutions
TNE lysis buffer			
Trace Elements B	Cellgro	99-175-CI	
Transferrin (apo-Transferrin human)	Sigma-Aldrich	T1147	
Triton X-100	Sigma-Aldrich	T9284	
Trypsin	Sigma-Aldrich	T9201-1G	
Trypsin Inhibitor From Chicken Egg White	Roche	10109878001	
Trypsin-EDTA (1x), phenol red (0.05%)	Life Technologies	25300-054	
Unconjugated Griffonia Simplicifolia Lectin BSL-1	Vector laboratories	L-1100	
Uridine	Sigma-Aldrich	U3003-5G	