

Materials List for:

High-throughput Flow Cytometry Cell-based Assay to Detect Antibodies to N-Methyl-D-aspartate Receptor or Dopamine-2 Receptor in Human Serum

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Materials

Name	Company	Catalog Number	Comments
pIRES2-EGFP vector	Clontech	6029-1	
Human HA-Dopamine-2 receptor (D2R) cDNA	Missouri S&T cDNA Resource Centre	DRD020TN00	
Human subunit 1 of NMDAR (NR1) cDNA			Gift from Prof A. Vincent (Oxford, UK)
Monoclonal purified mouse anti-human NR1 antibody (clone: 54.1)	BD Pharmingen	556308	
Mouse purified monoclonal anti-DRD2 IgG (clone: 1B11)	Sigma-Aldrich	WH0001813M1-50UG	
Alexa Fluor 647 donkey anti-mouse IgG (H + L)	Invitrogen	A31571	
Alexa Fluor 647 goat anti-human IgG (H + L)	Invitrogen	A21445	
Dulbecco's Modified Eagle Medium (1x) 4.5 g/L D-glucose, L-Glutamine and 110 mg/L sodium pyruvate	Invitrogen	11995-065	
Foetal bovine serum	Invitrogen	10099-141	
Gentamicin	Invitrogen	15710-072	
GlutaMAX	Invitrogen	35050-061	
Penicillin-streptomycin	Invitrogen	15140-122	
Geneticin	Invitrogen	10131-035	
Dulbecco's Phosphate-Buffered Saline (1x) (-Ca ²⁺ /-Mg ²⁺)	Invitrogen	14190-144	
TrypLE Express (1x) with Phenol Red	Invitrogen	12605-028	
0.9% Sodium chloride	Baxter	AHF7975	
Polyethylenimine	Polysciences Inc	9002-98-6	
Versene	Invitrogen	15040-066	
Xhol	Roche	10899194001	
NheI	Roche	10885843001	
PureLink PCR Purification Kit	Invitrogen	K3100-01	
JetQuick Gel Extraction Spin Kit	Genomed	420050	
T4 DNA Ligase	Roche	10481220001	
Plasmid Plus Maxi Kit	Qiagen	12963	
Name of Equipment/Software	Company	Catalog Number	Model/Version

Flow cytometer with high-throughput sampler system	BD Biosciences		BDLSRII with HTS
Inverted microscope	Olympus		CKX41 (with mercury lamp and U-RFLT50 power supply)
Electronic multichannel pipette (15-300 μ l)	Eppendorf	613-2240P	12-channel Xplorer Plus
Excel	Microsoft		2010
Prism	GraphPad Software, Inc.		v4
FlowJo	Treestar		v7.5
50 ml polypropylene conical tubes	BD Biosciences	352070	
6-well plate	BD Biosciences	353046	
Tissue culture flask (T75)	BD Biosciences	353136	
Parafilm	Pechiney Plastic Packaging	PM-992	
V-bottom 96-well plate	Corning	651180	