

Materials List for:

# In Vivo Monitoring of Circadian Clock Gene Expression in the Mouse Suprachiasmatic Nucleus Using Fluorescence Reporters

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## Materials

Name	Company	Catalog Number	Comments
KOD Plus Neo	TOYOBO	KOD-401	Reagent
pVENUS-N1	addgene	#61854	Plasmid
pcDNA3.3_d2eGFP	addgene	#26821	Plasmid
pAAV-EF1a-double floxed-hChR2(H134R)-mCherry-WPRE-HGHpA	addgene	#20297	Plasmid
MluI	Thermo Scientific	FD0564	Reagent
EcoRI	Thermo Scientific	FD0274	Reagent
Gibson Assembly Mix	NEB	E2611s	Reagent
Lipofectamine 2000	Thermo Scientific	12566014	Reagent
Syringe Filter	EMD Millipore	SLHV033RS	0.45 µm
HiTrap heparin columns	gelifesciences	17-0406-01	1 mL
Amicon ultra-4 centrifugal filter	EMD Millipore	UFC810024	100,000 MWCO
Benzonase nuclease	Sigma-Aldrich	E1014	Reagent
Sodium deoxycholate	Sigma-Aldrich	D5670	Make fresh solution for each batch
mouse stereotaxic apparatus	B&E TEKSYSTEMS LTD	#SR-5M/6M	Equipment
pentobarbital	SigmaAldrich	#1507002	Reagent
mouse stereotaxic apparatus	B&E TEKSYSTEMS LTD	#SR-5M/6M	Equipment
Hydrogen peroxide solution	SigmaAldrich	#216763	Reagent
Optical Fiber	Thorlabs	FT200EMT	0.39 NA, Ø200 µm
microsyringe pump	Nanoliter 2000 Injector, WPI		Equipment
ceramic ferrule	Shanghai Fiblaser		230 µm I.D., 2.5 mm O.D.
Gene Observer	BiolinkOptics		Equipment