

Materials List for

# AAV Deployment of Enhancer-Based Expression Constructs *In Vivo* in Mouse Brain

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jove.com/video/62650

## Materials

Name	Company	Catalog Number	Comments
10x Citrate Buffer	Sigma-Aldrich	C9999-1000ML	
5'-gatcactctcggcatggac-3'	Integrated DNA Technologies	N/A: Custom designed	Forward primer for verifying clones after transformation. These primers are specific to the vector used and were designed for the specific vector used in our experiments.
5'-gatggctggcaactagaagg-3'	Integrated DNA Technologies	N/A: Custom designed	Reverse primer for verifying clones after transformation. These primers are specific to the vector used and were designed for the specific vector used in our experiments.
Agarose	VWR	VWRVN605-500G	
Aspirator tube assemblies	Sigma-Aldrich	A5177-5EA	for mouth-driven delivery of rAAV
Bacteriological petri dishes	Thermo Fisher Scientific	08-757-100D	
Carbenicillin	Sigma-Aldrich	C1389-5G	
Chicken IgY anti-GFP	Thermo Fisher Scientific	A10262	
Confocal microscope	Zeiss	LSM900	The images were taken on the LSM800 model, but Zeiss launched the LSM900 model in recent years to replace LSM800.
Conical centrifuge tubes 15 mL	Thermo Fisher Scientific	12-565-269	
Cryomolds	Thermo Fisher Scientific	NC9806558	These molds are suitable for P28 mouse brain. Other sizes may be more suitable for larger or smaller tissues.
DAPI	Sigma-Aldrich	D9542-10MG	
Dissecting scissors, 4.5"	VWR	82027-578	
Donkey anti-chicken AlexaFlour-488	Jackson ImmunoResearch	703-545-155	
Dulbecco's PBS 1x	Thermo Fisher Scientific	MT21031CV	
Eppendorf Microcentrifuge tubes 2.0 mL	Thermo Fisher Scientific	22431048	
Falcon round-bottom tubes 14 mL	Thermo Fisher Scientific	352059	

Fast Green dye	Grainger	F0099-1G	
Fine detail paint brush set	Artbrush Tower	B014GWCLFO	
Gibson Assembly Master Mix	NEB	E2611S	
Glass capillary tubes	Drummond Scientific Company	5-000-2005	
HiSpeed Plasmid Maxi Kit	QIAGEN	12663	Commercial plasmid maxi prep kit
HyClone HyPure Molecular Biology Grade Water	VWR	SH30538.03	
IV butterfly infusion set with 12" tubing and 25G needle	Thermo Fisher Scientific	26708	
Kimwipes	Kimberly Clark	34155	Lint-free wipe
LB Agar	Thermo Fisher Scientific	BP1425-500	LB agar pre-mix for selective media
McPherson Vannas iris scissor	Integra LifeSciences	360-215	
Mineral oil	Sigma Life Science	69794-500ML	
NEB Stable Competent E. coli	NEB	C3040I	
NucleoSpin Gel and PCR Clean-Up	Takara	740609.5	Kit for enzymatic reaction cleanup and gel extraction
OCT medium	VWR	25608-930	
Orbital shaker	Cole Parmer	60-100	
Paraformaldehyde	Sigma-Aldrich	158127-500G	
PCR strip tubes 0.2 mL	VWR	490003-692	
Peristaltic pump	Gilson	F155005	
Phosphate buffered saline (PBS) 10x	Thermo Fisher Scientific	70011044	
Phusion Hot Start II High Fidelity DNA Polymerase	Thermo Fisher Scientific	F549L	
Powdered milk	Sunny Select		
ProLong Gold Antifade Mountant	Thermo Fisher Scientific	P36934	
QIAquick PCR Purification Kit	QIAGEN	28106	
rCutSmart Buffer	NEB	B6004S	Buffer for restriction digest with PaeI, AclI, and XmaI
Restriction enzyme: AclI	NEB	R0558L	
Restriction enzyme: PaeI	NEB	R0547L	
Restriction enzyme: XmaI	NEB	R0180L	
SOC outgrowth medium	NEB	B0920S	Recovery medium after transformation
Sucrose (RNase/DNase free)	Millipore Sigma	033522.5KG	
TAE buffer	Apex	20-194	
Transfer tubing	Gilson	F1179941	For peristaltic pump
Triton X100	Sigma-Aldrich	X100-100ML	
Wizard Plus SV Minipreps DNA Purification System	Thermo Fisher Scientific	A1460	Plasmid mini prep kit