

Materials List for:

Generation of Plasmid Vectors Expressing FLAG-tagged Proteins Under the Regulation of Human Elongation Factor-1 α Promoter Using Gibson Assembly

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URL: <https://www.jove.com/video/52235>

DOI: [doi:10.3791/52235](https://doi.org/10.3791/52235)

Materials

Name	Company	Catalog Number	Comments
Synthetic double-stranded DNA fragment (sDNA)	Integrated DNA Technologies		We used gBlocks, which can be up to 2 kb in length. However, there are many commercial sources of synthetic DNA available.
DNA purification magnetic beads	Beckman Coulter	A63880	Agencourt AMPure XP - PCR Purification system
Plasmid Isolation Mini Kit	Omega Bio-Tek Inc	D6942-01	E.Z.N.A. Plasmid Mini Kit I
Gibson Assembly Cloning Kit	New England BioLabs	E5510S	
DNA polymerase	New England BioLabs	M0494S	Q5 Hot Start High Fidelity 2x Master Mix
DpnI	New England BioLabs	R0176S	
NheI	New England BioLabs	R3131S	
NotI	New England BioLabs	R3189S	
HindIII	New England BioLabs	R3104S	
Spectrophotometer	Thermo Scientific		NanoDrop device
EditSeq	DNASTAR		Part of Lasergene Core Suite
SeqBuilder	DNASTAR		Part of Lasergene Core Suite
Word	Microsoft		Part of Microsoft Office
NEBuilder	New England BioLabs		primer generation tool: http://nebuilder.neb.com
NEBioCalculator	New England BioLabs		ligation calculator: http://nebiocalculator.neb.com/#/ligation