

Materials List for:

A Customizable Protocol for String Assembly gRNA Cloning (STAgR)

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Materials

Name	Company	Catalog Number	Comments
Phusion High- Fidelity DNA Polymerase	NEB	M0530L	Polymerase for Gibson Master Mix as well as all PCRs
dNTPs	Life Technology	R0191	dNTPs for all PCRs
dATP	Life Technology	R0141	dNTPs for Gibson Master Mix
dCTP	Life Technology	R0151	dNTPs for Gibson Master Mix
dGTP	Life Technology	R0161	dNTPs for Gibson Master Mix
dTTP	Life Technology	R0171	dNTPs for Gibson Master Mix
Agarose	VWR	443666A	
Dpnl	NEB	R0176S	
AMPure XP Beads	Beckman Coulter	A63881	for DNA clean up
Tris HCL	Roth	9090.2	for Gibson Master Mix
DTT	Life Technology	R0861	for Gibson Master Mix
PEG 8000	VWR	RC- 077	for Gibson Master Mix
NAD	Cayman Chemicals Company	16077	for Gibson Master Mix
T5 Exonuclease	NEB	M0363S	for Gibson Master Mix
Taq DNA Ligase	NEB	M0208S	for Gibson Master Mix
Ampicilin	SigmaAldrich	PHR1393-1G	
DNA Ladder 1 kb Plus	Thermo Scientific	SM0311	
Plasmid Mini Kit	Thermo Scientific	K0503	
Plasmid and Primer Sequences			All sequences available at Figshare (https://goo.gl/UGdc3Q).
EDTA	PanReacAppliChem	6381-92-6	for TLE Buffer
MgCl ₂	SigmaAldrich	M8266	for Gibson Master Mix
Top10 chemically competent bacteria	Thermo Scientific	C404003	
S.O.C. Medium	Thermo Scientific	15544034	
Yeast- Extract	SigmaAldrich	Y1625	for lysogenic broth (LB Media)
NaCl	SigmaAldrich	S7653	for lysogenic broth (LB Media)
Peptone	SigmaAldrich	91249	for lysogenic broth (LB Media)
Agar-Agar	SigmaAldrich	5040	for lysogenic broth (LB Media)
Taq DNA Polymerase	Quiagen	201203	