

Materials List for:

Introducing a Gene Knockout Directly Into the Amastigote Stage of *Trypanosoma cruzi* using the CRISPR/Cas9 System

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Materials

Name	Company	Catalog Number	Comments
20% formalin solution	FUJIFILM Wako Pure Chemical	068-03863	fixing cells
25 cm ² double seal cap culture flask	AGC Techno Glass	3100-025	
75 cm ² double seal cap culture flask	AGC Techno Glass	3110-075	
All-in One Fluorescence Microscope	Keyence	BZ-X710	
Alt-R CRISPR-Cas9 crRNA (for Control)	IDT	custom made	target sequence = GGACGGCACCTTCATCTACAAGG
Alt-R CRISPR-Cas9 crRNA (for TcCGM1)	IDT	custom made	target sequence = TAGCCGCGATGGAGAGTTTATGG
Alt-R CRISPR-Cas9 crRNA (for TcPAR1)	IDT	custom made	target sequence = CGTGGAGAACGCCATTGCCACGG
Alt-R CRISPR-Cas9 tracrRNA	IDT	1072532	to anneal with crRNA
Amaxa Nucleofector device	LONZA	AAN-1001	electroporation
Basic Parasite Nucleofector Kit 2	LONZA	VMI-1021	electroporation
BSA	Sigma-Aldrich	A3294	component of the medium for in-vitro amastigogenesis
Burker-Turk disposable hemocytometer	Watson	177-212C	cell counting
Costar 12-well Clear TC-Treated Multiple Well Plates	Corning	3513	
DMEM	FUJIFILM Wako Pure Chemical	044-29765	culture medium
Fetal bovine serum, Defined	Hyclone	SH30070.03	heat-inactivate before use
G-418 Sulfate Solution	FUJIFILM Wako Pure Chemical	077-06433	selection of transformant
Hemin chloride	Sigma-Aldrich	H-5533	component of LIT medium
Hoechst 33342	Thermo Fisher Scientific	H3570	staining of nuclei
Liver infusion broth, Difco	Becton Dickinson	226920	component of LIT medium
MES	FUJIFILM Wako Pure Chemical	349-01623	component of the medium for in-vitro amastigogenesis
PBS (-)	FUJIFILM Wako Pure Chemical	166-23555	
Propidium Iodide	Sigma-Aldrich	P4864-10ML	staining of dead cells
RPMI 1646	Sigma-Aldrich	R8758	medium for metacyclogenesis