

Materials List for:

# Injection of *An. stephensi* Embryos to Generate Malaria-resistant Mosquitoes

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## Materials

Name	Type	Company	Catalog Number	Comments
Injection Quartz needles		Sutter Instrument Co.		O.D.- 1.0 mm, I.D.-0.70, 10 cm length, are prepared by drawing capillary tubing into a fine 3-8 um with a shaft of approximately 100-300 mm micropipette puller.
Quartz puller	Tool	Sutter Instrument Co.	P-2000	Set-up: Heat-275, Fil-3, Vel-38, Del-250, Pull-141
EndoFree plasmid kit		Qiagen		
Isopropanol				
Millex-GV column			SLGV RO4 NL	for DNA cleaning
Construct DNA				0.5 mg/ml
Helper plasmid				0.3 mg/ml
Injection solution	Buffer			1x solution: 5mM KCl, 0.1mM sodium phosphate, ph 6.8
Isotonic buffer				see recipe in the protocol section
Dessication oil				Halocarbon oil 700:Halocarbon oil 27(1:1). Mix well. Prepare in advance of microinjection.
Blood				to feed mosquitos
Anopheles stephensi	Animal			Mosquitos, male and female.
Drosophila culture vial				for egg laying
Petri dishes				with isotonic buffer, for embryo hatching
Fine paintbrush				Sable # 0000
3MM Whatman paper				
Forceps #5				
double sided tape				
Microloader		Eppendorf	5242 956.003	
Transjector		Eppendorf		
Microscope		Leica Microsystems		with moving stage and micromanipulator, set at 10x magnification