

Egg Microinjection and Efficient Mating for Genome Editing in the Firebrat *Thermobia domestica*

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Materials

Name	Company	Catalog Number	Comments
24-well plate	Corning	83-3738	
Alt-R S.p. HiFi Cas9 Nuclease V3, 100 µg	Integrated DNA Technologies	1081060	
Anti-static cleaner	Hozan	Z-292	for removing static electricity from a 24-well plate
Barrier Box 20.7L	AS ONE	4-5606-01	Large container
FemtoJet 4i	Eppendorf	5252000013	Electronic microinjector
Femtotip II, injection capillary	Eppendorf	5242957000	Glass injection capillary
High Pack 2440mL	AS ONE	5-068-25	Middle-sized container
Incubator	Panasonic	MIR-554-PJ	for 37 °C incubation. No need to humidify inside the incubator.
KOD Fx Neo	Toyobo	KFX-101	PCR enzyme for genotyping. Optimized for an amplification from crude templates.
Magnetic stand	Narishige	GJ-8	for holding the micromanipulator
Microloader	Eppendorf	5242956003	
Micromanipulator	Narishige	MM-3	
Microscope	Olympus	SZX12	for microinjection. More than 35X magnification is sufficient for the microinjection
MultiNA	Shimadzu	MCE-202	Microchip electrophoresis system
NiceTac	Nichiban	NW-5	Double-sided tape to place eggs on a glass slide
Paint brush (horse hair)	Pentel	ZBS1-0	
Plant culture dish	SPL Life Sciences	310100	Mating dish and water supplies for a large and middle-sized containers
Proteinase K, recombinant, PCR Grade Lyophilizate from <i>Pichia pastoris</i>	Roche	3115836001	
SZX 12 microscope	Olympus	SZX 12	More than 35X magnification is sufficient for the microinjection
Talcum powder	Maruishi	877113	

Tetra Goldfish Gold Growth	Spectrum Brands		Artificial regular fish food
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