

Transfection of *Salpingoeca rosetta*

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Abstract

This collection of protocols describes the preparation of reagents for transfecting DNA into the choanoflagellate *Salpingoeca rosetta* using a Nucleofector 4d Device and SF kit from Lonza. Plasmids that use *S. rosetta* promoters and regulatory elements to drive the expression of luciferase and fluorescent protein reporters are being deposited at Addgene.

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Collection



1. Protocol A: Preparation of endotoxin-free carrier DNA for transfection

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2. Protocol B: Preparation of ATP for transfection

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3. Protocol C: Preparation of heparin for transfection

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4. Protocol D: Preparation of BSA for quenching pretreatment

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5. Protocol E: Preparation of pretreatment buffer

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6. Protocol F: Preparation of recovery buffer

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7. Protocol G: Preparation of reporter DNA

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8. Protocol I: Transfection of *Salpingoeca rosetta* with Lonza 4d nucleofector

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