

Materials List for:

# Genomic Transformation of the Picoeukaryote *Ostreococcus tauri*

Gerben van Ooijen<sup>1</sup>, Kirsten Knox<sup>1</sup>, Katalin Kis<sup>1</sup>, François-Yves Bouget<sup>2,3</sup>, Andrew J. Millar<sup>1</sup>

<sup>1</sup>SynthSys, University of Edinburgh

<sup>2</sup>Centre National de la Recherche Scientifique, Université Pierre et Marie Curie, Paris 06

<sup>3</sup>UMR 7621, Laboratoire d'Océanographie Microbienne, Observatoire Océanologique, Banyuls-sur-Mer, Université Pierre et Marie Curie, Paris 06

Correspondence to: Gerben van Ooijen at [Gerben.vanOoijen@ed.ac.uk](mailto:Gerben.vanOoijen@ed.ac.uk)

URL: <https://www.jove.com/video/4074>

DOI: [doi:10.3791/4074](https://doi.org/10.3791/4074)

## Materials

Name	Company	Catalog Number	Comments
<b>Medium constituents</b>			
Instant Ocean Marine Salt	from <a href="http://amazon.co.uk">amazon.co.uk</a> or <a href="http://rocketaquatics.co.uk">rocketaquatics.co.uk</a>		
NaNO <sub>3</sub>	S5506-250G	Sigma	
NH <sub>4</sub> Cl	A9434-500G	Sigma	
Glycerol 2-phosphate disodium salt hydrate	G9422-100G	Sigma	
H <sub>2</sub> SeO <sub>3</sub>	84920-250G	Sigma	
Ultra pure tris	15504-020	Invitrogen	
Na <sub>2</sub> EDTA·2H <sub>2</sub> O	BPE120-500G	Fisher Scientific	
FeCl <sub>3</sub> ·6H <sub>2</sub> O	157740	Sigma	
Na <sub>2</sub> MoO <sub>4</sub> ·2H <sub>2</sub> O	31439-100G-R	Sigma	
ZnSO <sub>4</sub> ·7H <sub>2</sub> O	Z0251	Sigma	
CoCl <sub>2</sub> ·6H <sub>2</sub> O	31277	Sigma	
MnCl <sub>2</sub> ·4H <sub>2</sub> O	203734-5G	Sigma	
CuSO <sub>4</sub> ·5H <sub>2</sub> O	C8027	Sigma	
Vitamin B <sub>12</sub> (cyanocobalamin)	V2876	Sigma	
Biotin	47868	Sigma	
Thiamine · HCl	T4625	Sigma	
Ampicillin	A9518-25G	Sigma	
Neomycin	N6386	Sigma	
Kanamycin	K4000	Sigma	
<b>Consumables for culturing</b>			
Tissue Culture Flask T25 Suspension Cultures Vented with Pouring Channel	83.1810.502	Starstedt	
Tissue Culture Flask T75 Suspension Cultures Vented with Pouring Channel	83.1813.502	Starstedt	
Tissue Culture Flask T175 Suspension Cultures Vented with Pouring Channel	83.1812.502	Starstedt	
TPP Bottle top filters, 1L, complete	99950T	Helena Bioscience	
TPP Bottle top filters, 500ml,	99500T	Helena Bioscience	
TPP Bottle top filters, 250ml,	99250T	Helena Bioscience	

TPP Bottle top filters, 150ml,	99150T	Helena Bioscience	
Salinity Meter for Marine Aquarium	DSG-10	Daeyoon	
<b>Chemicals for transformation</b>			
D-Sorbitol	S6021-1KG	Sigma	
Pluronic F-68 solution	P5556-100ML	Sigma	
ClonNat	51000	Werner	
Low melting point agarose	16520-050	Invitrogen	
<b>Consumables for transformation</b>			
Tissue Culture Flask T25 Suspension Cultures Vented with Pouring Channel	83.1810.502	Starstedt	
Tissue Culture Flask T75 Suspension Cultures Vented with Pouring Channel	83.1813.502	Starstedt	
Tissue Culture Flask T175 Suspension Cultures Vented with Pouring Channel	83.1812.502	Starstedt	
Greiner centrifuge tubes 50ml	227261	GBO	
Gene Pulser/MicroPulser Cuvettes, 0.2 cm gap, 50	165-2086	Bio-Rad	
Petri dish round PS 3 VENTS H14.2 Φ55	391-0895	VWR International	
Petri dish square with four vents polystyrene sterile by irradiation clear 120mm	FB51788	Fisher Scientific	
Moonlight Blue light filter	183	Lee Lighting	