

Materials List for

Fluorescent *In Situ* Hybridization and 5-Ethynyl-2'-Deoxyuridine Labeling for Stem-Like Cells in the Hydrozoan Jellyfish *Cladonema pacificum*

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Materials

Name	Company	Catalog Number	Comments
2-Mercaptoethanol	Wako	137-06862	
3.1 mL transfer pipette	Thermo Scientific	233-20S	
5-Bromo-4-chloro-3-indolyl- β -D-galactopyranoside (X-Gal)	Wako	029-15043	
anti-DIG-POD	Roche	11207733910	
<i>Cladonema pacificum</i> Nanos1 forward primer			5'-AAGAGACACAGTCATTATCAAGC GA-3'
<i>Cladonema pacificum</i> Nanos1 reverse primer			5'-CGACGTGTCCAATTTTACGTGCT -3'
<i>Cladonema pacificum</i> Piwi forward primer			5'-AAAAGAGCAGCGGCCAGAAAGA AGGC -3'
<i>Cladonema pacificum</i> Piwi reverse primer			5'-GCGGGTCGCATACTTGTGGTA CTGGC -3'
Click-iT EdU Cell Proliferation Kit for Imaging, Alexa Fluor 488 dye	Invitrogen	C10337	EdU kit
Coroline off	GEX Co. Ltd	N/A	chlorine neutralizer
DIG Nucleic Acid Detection Kit Blocking Reagent	Roche	11175041910	blocking buffer
DIG RNA labeling mix	Roche	11277073910	
DTT	Promega	P117B	
ECOS competent cell DH5 α	NIPPON GENE	316-06233	competent cell
Fast gene Gel/PCR Extraction kit	Fast gene	FG-91302	gel extraction kit
Fast gene plasmid mini kit	Fast gene	FG-90502	plasmid miniprep
Formamide	Wako	068-00426	
Heparin sodium salt from porcine	SIGMA-ALDRICH	H3393-10KU	

Isopropyl- β -D(-)-thiogalactopyranoside (IPTG)	Wako	096-05143	
LB Agar	Invitrogen	22700-025	agar plate
LB Broth Base	Invitrogen	12780-052	LB medium
Maleic acid	Wako	134-00495	
mini Quick spin RNA columns	Roche	11814427001	clean-up column
NaCl	Wako	191-01665	
NanoDrop OneC Microvolume UV-Vis Spectrophotometer with Wi-Fi	Thermo Scientific	ND-ONEC-W	spectrophotometer
Polyoxyethylene (20) Sorbitan Monolaurate (Tween-20)	Wako	166-21115	
PowerMasher 2	nippi	891300	homogenizer
Proteinase K	Nacalai Tesque	29442-14	
RNase Inhibitor	TaKaRa	2313A	
RNeasy Mini kit	Qiagen	74004	total RNA isolation kit
RQ1 RNase-Free Dnase	Promega	M6101	
Saline Sodium Citrate Buffer 20x powder (20x SSC)	TaKaRa	T9172	
SEA LIFE	Marin Tech	N/A	mixture of mineral salts
T3 RNA polymerase	Roche	11031163001	
T7 RNA polymerase	Roche	10881767001	
TAITEC HB-100	TAITEC	0040534-000	Hybridization incubator
TaKaRa Ex Taq	TaKaRa	RR001A	Taq DNA polymerase
TaKaRa PrimeScript 2 1 st strand cDNA Synthesis Kit	TaKaRa	6210A	cDNA synthesis kit
Target Clone	TOYOBO	TAK101	pTA2 Vector
tRNA	Roche	10109541001	
TSA Plus Cyanine 5	AKOYA Biosciences	NEL745001KT	tyramide signal amplification (TSA) technique
Zeiss LSM 880	ZEISS	N/A	laser scanning confocal microscope