

Materials List for:

In Vitro Bioluminescence Assay to Characterize Circadian Rhythm in Mammary Epithelial Cells

Mingzhu Fang¹, Hwan-Goo Kang², Youngil Park², Brian Estrella¹, Helmut Zarbl¹

¹Department of Environmental and Occupational Health, School of Public Health, NIEHS Center for Environmental Exposures and Disease, Environmental and Occupational Health Sciences Institute, Rutgers University

²Veterinary Drugs & Biologics Division, Animal and Plant Quarantine Agency

Correspondence to: Mingzhu Fang at fang@ehsi.rutgers.edu

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Materials

Name	Company	Catalog Number	Comments
pLS[hPER2P/rLuc/Puro] vector	SwitchGear Genomics	S700000	customized vector
pGL4.18[Luc2P/Neo] vector	Promega	9PIE673	destabilized luciferase expression vector
T4 DNA ligase	Invitrogen	15224041	For subcloning
TOPO TA cloning kit	Invitrogen	K4500-02	with One Shot TOP10 Chemically Competent E. coli
Sac I	New England BioLabs	R0156S	Restriction enzyme
Hind III-HF	New England BioLabs	R3104S	Restriction enzyme
CutSmart buffer	New England BioLabs	B7204S	Restriction enzyme buffer
DNA gel extraction kit	Qiagen	28704	Purify DNA fragments from agarose gel
PCR Purification Kit	Qiagen	28104	DNA clean up
LB Miller's modification	TEKNOVA	L8600	For transformed E. Coli culture
LB Agar Plate	TEKNOVA	L1902	For white/blue selection
QIAprep spin miniprep Kit	Qiagen	27104	For extraction of plasmide DNA
EndoFree plasmid maxi prep Kit	Qiagen	12362	For extraction of plasmide DNA
FuGene HD	Promega	E2311	Transfection reagent
Opti-MEM reduced serum medium	Invitrogen	31985-062	For transfection
MCF10A cell line	American Type Culture Collection	CRL-10317	Mammary Epithelial Cells
MEGM BulletKit	Lonza	CC-3150	Mammary Epithelial Growth Medium
MEBM	Lonza	CC-3151	Mammary Epithelial Basal Medium
MEGM SingleQuot Kit	Lonza	CC-4136	Suppliments & Growth Factors
ReagentPack	Lonza	CC-5034	Reagent for subculture
D-PBS (10X)	Sigma	D1408	Wash cells in culture dishes
UltraPure Distilled Water	Invitrogen	10977	Dilute 10X D-PBS
Tissue culture dish (35 mm)	BD/Falcon	353001	cell culture dish suitable to LumiCycle
Silicon grease	Fisher	NC9044707	For sealing dish with recording medium
Round cover glass	Harvard Bioscience	64-1500 (CS-40R)	For sealing dish with recording medium
Cholera toxin	Sigma	C8052	Supplement for growth medium
G418 sulfate (Geneticin)	Invitrogen	10131035	Antibiotic for selection of stablly transfected cells

Ampicillin	Sigma	A9393	For colony selection
Forskolin	Sigma	F6886	Synchronization agent
Melatonin	Sigma	M5250	Synchronization agent
Dexamethasone	Sigma	D4902	Synchronization agent
Horse serum	Sigma	H1138	Synchronization agent
d-Luciferin, sodium salt	Invitrogen	L2912	Luciferase substrate
IC261	Sigma	10658	Positive control for circadian disruptor
Methylnitrosourea (NMU)	Sigma	N1517	Mammary specific carcinogen
Methylselenocysteine (MSC)	Sigma	M6680	Organic selenium (chemopreventive agent)
EX527	Sigma	E7034	SIRT1 specific inhibitor
Cambinol	Sigma	C0494	SIRT1 & SIRT2 inhibitor
NanoDrop Spectrophotometer	Thermo Scientific	NanoDrop 8000	Quantify nucleotide
GeneAmp PCR System 9700	Applied Biosystems	N805-0200	For molecular biology experiment
CO2 Incubator	NAPCO	Series 8000 DH	For cell culture at 5% CO2 at 37 °C
Desktop centrifuge with refrerator	Eppendorf	5430R	For molecular biology experiment
Centrifuge with swing bucket	Eppendorf	5810 R	For cell culture
Inverted microscope	Nikon	80124	Phase contrast optional
Tissue culture hood	Labconco	Class II A2	BSL-2 certified
LumiCycle 32	Actimetrics	Not Available	Luminoscence detector