

## Supplementary Reagents

REAGENT or RESOURCE	SOURCE	IDENTIFIER
<b>Antibodies</b>		
Rabbit monoclonal anti-BMAL1	Cell Signaling Technology	Cat # 14020
Rabbit polyclonal anti-CLOCK	Cell Signaling Technology	Cat # 5157
Mouse polyclonal anti-MYC	Sant Cruz	Cat # sc-764
Rabbit polyclonal anti-SOX2	Millipore	Cat # AB5603
Mouse polyclonal anti-OLIG2	Millipore	Cat # MABN50
Mouse monoclonal anti-TUBULIN	Sigma	Cat # T6074
Mouse monoclonal anti-Ki67	Dako	Cat # M7240
Rabbit polyclonal anti-cleaved CASPASE 3	Cell signaling Technology	Cat # 9664
Rabbit monoclonal anti-PARP	Cell signaling Technology	Cat # 9532
Rabbit Cleaved PARP	Cell signaling Technology	Cat # 5625
NPAS2 antibody	Abcam	ab137601
TP73 antibody	Proteintech	66990-1-Ig
Alexa Fluor 568 Donkey anti-Goat	Life Technologies	Cat # A-11057
Alexa Fluor 488 Donkey anti-Mouse	Life Technologies	Cat # A-21202
<b>Chemicals, Peptides, and Recombinant Proteins</b>		
D-Luciferin	Sigma-Aldrich	Cat # L9504
SR9009	Calbiochem	Cat # 554729
SR9011	Xcess Biosciences	Cat # M66049-2
KL001	Sigma-Aldrich	Cat # SML1032
z-VAD-FMK	R&D system	Cat # FMK001
Dexamethasone	Sigma-Aldrich	Cat # D1756
Protease Inhibitor Cocktail	Roche	Cat # 4693159001
Matrigel hESC-Qualified Matrix	Corning	Cat # 354277
CellTiter-Glo Luminescent Cell Viability Assay	Promega	Cat # G7571
Seahorse XF Base Medium	Agilent Technology	Cat #102353-100
Neurobasal-A Medium	Life Technologies	Cat # A2477501
DAPI	Life Technologies	Cat # D1306
GlutaMAX Supplement	Life Technologies	Cat # 35050061
B27-supplement w/o Vitamin A	Life Technologies	Cat # 12587010
Sodium Pyruvate	Life Technologies	Cat # 11360070
FGF recombinant	R&D Systems	Cat # 4114-TC-01M
EGF recombinant	R&D Systems	Cat # 236-EG-01M
ANTI-FLAG M2 affinity gel	Sigma-Aldrich	Cat # A2220
PVDF membranes EMD	Millipore	Cat # ISEQ00010
<b>Critical Commercial Assays</b>		
Seahorse XF Cell Mito Stress Test Kit	Agilent Technology	Cat # 103015-100
Dead Cell Apoptosis Kit with Annexin V Alexa Fluor® 488 & Propidium Iodide (PI)	Life Technology	Cat # V13241

Click-iT® Plus EdU Alexa Fluor® 488 Flow Cytometry Assay Kit	Life Technology	Cat # C10632
Magna CHIP™ A/G Chromatin Immunoprecipitation Kit	Millipore	Cat # 17-10085
ThruPLEX® NGS Library Preparation Kit	Rubicon	Cat # R400427
High Capacity cDNA Reverse Transcription Kit	Life Technology	Cat # 4368814
SYBR Green PCR Master Mix	Applied biosystems	Cat # 4309155
In-Fusion® HD Cloning Plus	Clontech	Cat # 638920
Q5® Site-Directed Mutagenesis Kit	New England Biolabs	Cat # E0054S
Thermo Scientific™ SuperSignal™ West Pico Chemiluminescent Substrate	Thermo Fisher	Cat # PI34080
Deposited Data		
Experimental Models: Cell Lines		
NHA	Lonza	Cat # CC-2565
Experimental Models: Organisms/Strains		
NSG (NOD.Cg-Prkdcscid Il2rgtm1Wjl/SzJ)	The Jackson Laboratory	JAX: 005557
Oligonucleotides		
qPCR Primer sets see Table S1		
Recombinant DNA		
Lentiviral Blank Control Vectors	Applied Biological Materials	Plasmid # LV590
pCMV-dR8.2	Addgene	Plasmid # 8455
pCI-VSVG	Addgene	Plasmid # 1733
pLKO.1 non-targeting vector	Sigma-Aldrich	Plasmid # SHC002
BMAL1 shRNA 1536	Sigma-Aldrich	TRCN0000019097
BMAL1 shRNA 698	Sigma-Aldrich	TRCN0000019096
CLOCK shRNA 1053	Sigma-Aldrich	TRCN0000018976
CLOCK shRNA 1494	Sigma-Aldrich	TRCN0000018978
SDHA shRNA 1523	Sigma-Aldrich	TRCN0000028043
SDHA shRNA 619	Sigma-Aldrich	TRCN0000028085
NPAS2 shRNA 1137	Sigma-Aldrich	TRCN0000234495
NPAS2 shRNA 469	Sigma-Aldrich	TRCN0000234492
pLV6-Bmal-Luc	Addgene	Plasmid # 68833
pCDH-MCS-T2A-Puro-MSCV	System Biosciences	CD522A-1
pCDH-MSCV-MCS-EF1a-GFP	System Biosciences	CD711-B1
pLV[Exp]-EGFP:T2A:Puro-EF1A>hARNTL	Vectorbuilder	VB161019-1118qsc
pLV[Exp]-Puro-CMV>3xFLAG/hCLOCK	Vectorbuilder	VB170403-1071kfe
pDONR223_CRY1_WT	Addgene	Plasmid # 82264