

## 1. Mini prep plasmid isolation by alkaline lysis method

#### **Solution I**

Glucose	50mM
Tris-Cl (pH 8)	25mM
EDTA (pH 8)	10mM

Solution was stored at 4°C.

#### **Solution II**

NaOH	0.2N
SDS	1% (W/V)

Buffer was prepared freshly, just before the experiment.

#### **Solution III**

Potassium acetate	3M

pH of the solution III was adjusted to 5.5 using Glacial acetic acid and subsequently stored at 4°C.

#### TE buffer

Tris Cl (1M, pH 8)	10mM
EDTA (0.5M. pH 8)	1mM

#### **50X TAE buffer**

Tris	242g/L
Glacial acetic acid (17.4N)	57.1ml/L
0.5M EDTA (pH 8)	100ml/L

Buffer was stored at room temperature.

#### 2. SDS-PAGE and western blot

## 10X electrode buffer

Tris	30g/L
Glycine	144g/L
SDS (20%)	25ml/L

pH of the buffer was adjusted to 8.3 using HCl and subsequently stored at room temperature.

### Western blot buffer

Tris	25mM
Glycine	192mM
Methanol (99.9%)	20% (v/v)

Methanol was added freshly, just before the use.

#### Western blot 10X TBS

NaCl	80g/L
KC1	2g/L
Tris	30g/L

pH of the solution was adjusted to 8.0 using HCl and subsequently stored at 4°C.

## Western blot blocking buffer

Fat free milk	5% (w/v)
10X TBS	100ml/L

Solution was prepared freshly, just before the use.

## Western blot wash buffer (1X TBST)

10X TBS	100ml/L
Tween 20	1ml/L

Buffer was prepared freshly, just before the use.

# 3. Nuclear fragmentation buffer

## **Buffer A**

100mM HEPES, pH 7.9	100ml/L
KCl	0.74g/L
MgCl2	0.3g/L
Sucrose	116g/L
Glycerol	100ml/L

Buffer was stored at 4°C.

**Buffer B** 

0.5M EDTA (pH 8)	6ml/L
0.5M EGTA (pH 8)	400μ1/L

Buffer was stored at 4°C.

# 4. Drosophila media

Jaggery	8.1 g
Gram Sattoo	6.0 g
Agar	1.5 g
Yeast extract	0.9 g
15% Methyl paraben	1.6 ml
Orthophosphoric acid	100 μ1
Propionic acid	250 μ1
Water	Upto 100 ml

# 5. List of reagents and kits used in this study

100bp DNA ladder 30% acrylamide/bis solution Biorad Acetic acid Agar SRL Agarose SRL Ammonium Persulphate SRL Ampicillin Antimycin A Bafilomycin Biorad BSA Sigma Bradford reagent Biorad BSA Calcium chloride SRL Chloroform SRL Chloroquine Sigma DAPI Biorad Biorad DOFDA Sigma DMEM-F12 media DMSO SRL DNA extraction and PCR purification kit Bioline DNA loading buffer Biorad ECCL Biorad Biorad Biorad Biorad Bioline DNA loading buffer BioBharati DNAsel ECCL Biorad SRL ECTA SRL ECTA SRL EGTA SRL EHanol		
30% acrylamide/bis solution  Acetic acid  Merck  Agar  SRL  Agarose  SRL  Ammonium Persulphate  Antimycin A  Bafilomycin  Bradford reagent  Biorad  BSA  Calcium chloride  Chloroform  SRL  Chloroquine  DAPI  DAPI  DOFDA  DMEM-F12 media  DNA oading buffer  DNA loading buffer  DNA loading buffer  DNAseI  ECL  Biorad  Biorad  Biorad  Biorad  Biorad  Gibco  Biorad  Thermo  ECL  Biorad  SRL  DNA extraction and PCR purification kit  Bioline  DNAseI  ECL  Biorad  EcoRI  NEB  EDTA  SRL	100bp DNA ladder	NEB
Acetic acid Merck Agar SRL  Agarose SRL  Ammonium Persulphate SRL  Ampicillin Himedia  Antimycin A Sigma  Bafilomycin Sigma  Bradford reagent Biorad  BSA Sigma  Calcium chloride SRL  Chloroform SRL  Chloroquine Sigma  DAPI Biorad  DCFDA Sigma  DMEM-F12 media Gibco  DMSO SRL  DNA extraction and PCR purification kit Bioline  DNA loading buffer BioBharati  DNascI Thermo  ECL Biorad  ECORI SRL  SRL  SRL  SRL  SRL  SRL  SRL  SRL	_	
Agar SRL  Agarose SRL  Ammonium Persulphate SRL  Ampicillin Himedia  Antimycin A Sigma  Bafilomycin Sigma  Bradford reagent Biorad  BSA Sigma  Calcium chloride SRL  Chloroform SRL  Chloroquine Sigma  DAPI Biorad  DCFDA Sigma  DMEM-F12 media Gibco  DMSO SRL  DNA extraction and PCR purification kit Bioline  DNA loading buffer BioBharati  DNaseI Thermo  ECL Biorad  ECORI SRL  SRL  SRL  SRL  SRL  SRL  SRL  SRL		
Agarose SRL  Ammonium Persulphate SRL  Ampicillin Himedia  Antimycin A Sigma  Bafilomycin Sigma  Bradford reagent Biorad  BSA Sigma  Calcium chloride SRL  Chloroform SRL  Chloroquine Sigma  DAPI Biorad  DCFDA Sigma  DMEM-F12 media Gibco  DMSO SRL  DNA extraction and PCR purification kit Bioline  DNA loading buffer Biorad  ECL Biorad  ECL Biorad  ECL SRL  EGTA SRL  SRL	Acetic acid	Merck
Ammonium Persulphate  SRL  Ampicillin  Himedia  Antimycin A  Sigma  Bafilomycin  Bradford reagent  Biorad  BSA  Sigma  Calcium chloride  SRL  Chloroform  SRL  Chloroquine  DAPI  DAPI  DOFDA  Sigma  DMEM-F12 media  DMSO  SRL  DNA extraction and PCR purification kit  DNA loading buffer  Biorad  ECL  Biorad  ECL  Biorad  ECL  Biorad  SRL  SRL  SRL  SRL  SRL  SRL  SRL  SR	Agar	SRL
Ampicillin Himedia  Antimycin A Sigma  Bafilomycin Sigma  Bradford reagent Biorad  BSA Sigma  Calcium chloride SRL  Chloroform SRL  Chloroquine Sigma  DAPI Biorad  DCFDA Sigma  DMEM-F12 media Gibco  DMSO SRL  DNA extraction and PCR purification kit Bioline  DNA loading buffer BioBharati  DNasel Thermo  ECL Biorad  ECRI NEB  EDTA SRL  Sigma  Sigma  Ampicillin Himedia  Sigma  Biorad  SRL  Bioline  DNA loading buffer BioBharati  NEB  EDTA  SRL  SRL	Agarose	SRL
Antimycin A  Bafilomycin  Bradford reagent  Biorad  BSA  Sigma  Calcium chloride  SRL  Chloroform  SRL  Chloroquine  DAPI  Biorad  DCFDA  DMEM-F12 media  DNA extraction and PCR purification kit  DNA loading buffer  Biorad  DNasel  ECL  Biorad  Biorad  Thermo  ECL  Biorad  Sigma  Antimycin A  Sigma  Gibco  DMSO  SRL  Bioline  DNA loading buffer  BioBharati  DNasel  ECL  Biorad  ECRI  SRL  SRL  SRL  SRL	Ammonium Persulphate	SRL
Bafilomycin Sigma Bradford reagent Biorad BSA Sigma Calcium chloride SRL Chloroform SRL Chloroquine Sigma DAPI Biorad DCFDA Sigma DMEM-F12 media Gibco DMSO SRL DNA extraction and PCR purification kit Bioline DNA loading buffer BioBharati DNaseI Thermo ECL Biorad ECRI NEB EDTA SRL  BIORA SIGMA SRL SRL SRL SRL SRL	Ampicillin	Himedia
Bradford reagent  BSA Sigma Calcium chloride SRL Chloroform SRL Chloroquine Sigma DAPI Biorad  DCFDA Sigma DMEM-F12 media DMSO SRL DNA extraction and PCR purification kit Bioline DNA loading buffer BioBharati DNaseI ECL Biorad ECRI EGTA SIGMA Sigma Sigma SRL Bioline BioBharati SRL Biorad SRL SRL SRL	Antimycin A	Sigma
BSA Sigma  Calcium chloride SRL  Chloroform SRL  Chloroquine Sigma  DAPI Biorad  DCFDA Sigma  DMEM-F12 media Gibco  DMSO SRL  DNA extraction and PCR purification kit Bioline  DNA loading buffer BioBharati  DNaseI Thermo  ECL Biorad  ECRI NEB  EDTA SRL  SRL	Bafilomycin	Sigma
Calcium chloride  Chloroform  SRL  Chloroquine  Sigma  DAPI  Biorad  DCFDA  Sigma  DMEM-F12 media  DMSO  SRL  DNA extraction and PCR purification kit  DNA loading buffer  BioBharati  DNaseI  ECL  Biorad  Biorad  Thermo  ECL  Biorad  SRL  Biorad  SRL  SRL  SRL  SRL  SRL  SRL	Bradford reagent	Biorad
Chloroform SRL  Chloroquine Sigma  DAPI Biorad  DCFDA Sigma  DMEM-F12 media Gibco  DMSO SRL  DNA extraction and PCR purification kit Bioline  DNA loading buffer BioBharati  DNaseI Thermo  ECL Biorad  EcoRI NEB  EDTA SRL  SRL	BSA	Sigma
Chloroquine  DAPI  Biorad  DCFDA  Sigma  DMEM-F12 media  Gibco  DMSO  SRL  DNA extraction and PCR purification kit  Bioline  DNA loading buffer  BioBharati  DNaseI  ECL  Biorad  ECL  Biorad  NEB  EDTA  SRL  SRL	Calcium chloride	SRL
DAPI Biorad  DCFDA Sigma  DMEM-F12 media Gibco  DMSO SRL  DNA extraction and PCR purification kit Bioline  DNA loading buffer BioBharati  DNaseI Thermo  ECL Biorad  EcoRI NEB  EDTA SRL  SRL	Chloroform	SRL
DCFDA Sigma  DMEM-F12 media Gibco  DMSO SRL  DNA extraction and PCR purification kit Bioline  DNA loading buffer BioBharati  DNaseI Thermo  ECL Biorad  EcoRI NEB  EDTA SRL  SRL	Chloroquine	Sigma
DMEM-F12 media  Gibco  SRL  DNA extraction and PCR purification kit  Bioline  DNA loading buffer  BioBharati  DNaseI  Thermo  ECL  Biorad  EcoRI  NEB  EDTA  SRL  SRL  SRL	DAPI	Biorad
DMSO SRL  DNA extraction and PCR purification kit Bioline  DNA loading buffer BioBharati  DNaseI Thermo  ECL Biorad  EcoRI NEB  EDTA SRL  EGTA SRL	DCFDA	Sigma
DNA extraction and PCR purification kit  Bioline  DNA loading buffer  BioBharati  Thermo  ECL  Biorad  EcoRI  NEB  EDTA  SRL  EGTA  SRL	DMEM-F12 media	Gibco
DNA loading buffer BioBharati  DNaseI Thermo  ECL Biorad  EcoRI NEB  EDTA SRL  EGTA SRL	DMSO	SRL
DNaseI Thermo  ECL Biorad  EcoRI NEB  EDTA SRL  EGTA SRL	DNA extraction and PCR purification kit	Bioline
ECL Biorad  EcoRI NEB  EDTA SRL  EGTA SRL	DNA loading buffer	BioBharati
EcoRI NEB EDTA SRL EGTA SRL	DNaseI	Thermo
EDTA SRL EGTA SRL	ECL	Biorad
EGTA SRL	EcoRI	NEB
	EDTA	SRL
Ethanol Himedia	EGTA	SRL
	Ethanol	Himedia

Ethidium bromide	SRL
Fat free milk	Biorad
FBS	Gibco
FCCP	Abcam
Filter paper	Biorad
Fluoroshield mounting media	Abcam
Formaldehyde	Sigma
Glucose	SRL
Glycerol	SRL
Glycine	Merck
Go Taq Green master mix	Promega
HC1	Merck
HEPES	Sigma
iScript Reverse Transcription Supermix	Biorad
Isopropanol	SRL
Kanamycin	SRL
Lipofectamine 2000	Thermo
Luperox	Sigma
Luria Bertani Agar	Himedia
Luria Bertani Broth	Himedia
Magnessium chloride	SRL
Mammalian protein extraction reagent	Thermo
Maxi prep plasmid isolation kit	Qiagen
Methanol	Himedia
Methyl paraben	Sigma
Mitochondria isolation kit	Pierce
Mitosox Red	Invitrogen

Mitotracker	Invitrogen
MTT reagent	SRL
NAC	Sigma
NAD/NADH assay kit	Abcam
Nicotinamide riboside	Santa Cruz Biotechnology
Nimodipine	Abcam
Nitrocellulose membrane	Biorad
Normal donkey serum	Abcam
Nuclease free water	Promega
Oligomycin	Sigma
OptiMem media	Gibco
Ortho phosphoric acid	Merck
PBS	Himedia
Penicillin-Streptomycin	Gibco
PMSF	SRL
Ponceau	Abcam
Potassium acetate	SRL
Potassium chloride	SRL
Pre stained protein ladder	Abcam
Propionic acid	Merck
Protease inhibitor	Thermo
Protein loading buffer	BioBharati
Purezol	Biorad
Resveratrol	Sigma
RNase	SRL
Rotenone	Sigma
SDS	Merck

Sodium arsenite	Sigma
Sodium butyrate	SRL
Sodium chloride	SRL
Sodium hydroxide	Merck
Sucrose	Amresco
SYBR Green Supermix	Biorad
T4 DNA ligase	NEB
TEMED	Sigma
TNF alpha blocker	abcam
Tris	Amresco
Triton X 100	Amresco
Trypsin-EDTA	Gibco
Tween-20	Merck
XhoI	NEB
Yeast extract	Sigma