

Equipment used in the thesis are listed in Table S9-1.

Table S9-1. Equipment used in this thesis

Equipment	Supplier
Autoclave Benchtop	Priorclave (London, UK)
B-Box TM Blue Light LED	SMOBIO (California, US)
Centrifuge Sigma 2-16K	Sigma (Harz, Germany)
Centrifuge Multifuge 3SR+	Thermo Scientific (Massachusetts, US)
Electronic analytical balance	Denver Instruments (Colorado, US)
Electroporation Gene Pulser	Bio-Rad (California, US)
Electrophoresis PowerPac Basic TM	Bio-Rad (California, US)
Fluorimeter FLUOstar Optima	BMG Labtech (Aylesbury, UK)
Heating block Thermomixer comfort	Eppendorf (Hamburg, Germany)
Microbiological safety cabinet Optimale 18	ADS Laminarie (France)
Micro-centrifuges Mini-15K	Allsheng (Zhejiang, China)
Oak ridge tube (50mL)	Thermo scientific (Massachusetts, US)
Optima TM L-100XP Ultracentrifuge	Beckman Coulter (California, US)
Shaker-incubator ZHWY-100B	Zhicheng (Shanghai, China)
Slide-A-Lyzer TM dialysis cassette	Thermo Scientific (Massachusetts, US)
Soniprep 150	MSE (UK)
Spectrophotometer Nanodrop 2000	Thermo Scientific (Massachusetts, US)
Thermal cycler PTC-200	MJ Research (California, US)

Buffers used in the thesis are listed in Table S9-2.

Table S9-2. Buffers used in this thesis

Buffers	Composition
Tris-Borate-EDTA (TBE)	0.445 M TRIS borate, 0.01 M EDTA·Na ₂ , pH 8.3
Phosphate buffered saline (PBS)	0.01 M phosphate buffer, 0.0027 M potassium chloride and 0.137 M sodium chloride, pH 7.4
2X Laemelli (Sigma)	4% SDS, 20% glycerol, 10% 2-mercaptoethanol, 0.004% bromophenol blue, and 125 mM Tris-HCl, pH 6.8
Tris-Glycine SDS running buffer	25 mM Tris, 192 mM glycine, 0.1% SDS, pH 8.3
SDS-PAGE gel staining buffer	2.5 g/L Coomassie Brilliant Blue in 45% methanol and 10% acetic acid
SDS-PAGE gel de-staining buffer	45% methanol, 10% acetic acid
SDS-PAGE gel recovery buffer	5% acetic acid
HEGX buffer	20mM Hepes-KOH, 0.8M NaCl, 1 mM EDTA, 10% Glycerol and 0.2% TX100, pH 7.5
Tn5 dialysis buffer	100 mM Hepes, 0.2 M NaCl, 0.2 mM EDTA, 2 mM DTT, 0.2% TX100 and 20% glycerol, pH 7.5