

7 Abbreviations

Å	1 angstrom = 1.0×10^{-10} meters
AAA ⁺	ATPases associated with a variety of cellular activities
ADP	Adenosine diphosphate
AMP-PNP	5'-adenylyl-imidodiphosphate
ATP	Adenosine triphosphate
CCP4	Collaborative Computational Project Number 4
3D/1D	Three-dimensional/One-dimensional
DI, DII, DIII	Domain I, Domain II, Domain III
DLS	Dynamic Light Scattering
DNA	Desoxyribonucleic acid
DTT	Dithiothreitol
<i>E. coli</i>	<i>Escherichia coli</i>
EDTA	Ethylenediamine tetraacetic acid
EMSA	Electrophoretic Mobility Shift Assay
IPTG	Isopropyl beta-D-thiogalactopyranoside
MCM	minichromosome maintenance
Ni-NTA	Ni ²⁺ -nitrilotriacetic acid
NMR	Nuclear Magnetic Resonance
PAGE	Polyacrylamide Gel Electrophoresis
PCR	Polymerase Chain Reaction
PDB	Protein Data Bank
PEG	Polyethylene glycol
PEI Cellulose TLC	Polyethylenimine Cellulose Thin Layer Chromatography
R1wt	RuvBL1 wild-type
R2wt	RuvBL2 wild-type
R1-DII	RuvBL1 with a truncated domain II (Δ T127-E233)
R2-DII	RuvBL2 with a truncated domain II (Δ E134-E237)
RNA	Ribonucleic acid
SAD	Single-Wavelength Anomalous Dispersion
SAXS	Small-Angle X-Ray Scattering
SDS	Sodium Dodecyl Sulfate
ssDNA/dsDNA	Single-stranded/double-stranded DNA
TBE	Tris-Borate-EDTA