

Abbreviations

2A*Rep	YcpO ⁻ -2A DNA preincubated with Rep protein before reaction
2A-rep	YcpO ⁻ -2A DNA in absence of Rep in the reaction
2A+Rep	YcpO ⁻ -2A DNA and Rep added during the reaction
aa	Amino acid
AbMV	<i>Abutilon mosaic virus</i>
ACS	ARS consensus sequence
Amp	Ampicillin
β-gal	β-Galactosidase
β-ME	Beta-mercaptoethanol
3-AT	3-amino-1, 2, 3-triazole
6X-His	hexa histidine tag
AD	Activation domain
APS	Ammonium persulfate
ARS	Autonomous replicating sequence
ATPase	Adenosine triphosphatase
BCIP	5-Bromo-4-chloro-3-indolyl phosphate
BD	Binding domain
bp	Base pair
BSA	Bovine serum albumin
CbLCV	<i>Cabbage leaf curl virus</i>
cDNA	Complementary DNA
CEN	Centromere
CIAP	Calf intestinal alkaline phosphatase
CR	Common region
CsCl	Cesium Chloride
C-terminal	Carboxy-terminal
dATP	Deoxyadenosine triphosphate
dCTP	Deoxycytosine triphosphate
DNA	Deoxyribonucleic acid
dNTPs	Deoxynucleoside triphosphates
dsDNA	Double stranded DNA
DTT	Dithiothreitol

dTTP	Deoxythymidine triphosphate
EDTA	Ethylenediaminetetracetic acid
Gal	Galactose
GST	Glutathione S-transferase
HR	Homologous Recombination
IPTG	Isopropyl β -D-thio-galactopyranoside
IR	Intergenic region
kb	Kilo base pairs
kDa	Kilo dalton
LB	Luria-Bertani medium
Leu	Leucine
LiAc	Lithium acetate
M	Molar
MAT	Mating type
MBP	Maltose binding protein
MCS	Multiple cloning site
mRNA	Messenger RNA
MYMIV	<i>Mung bean yellow mosaic India virus</i>
NBT	p-Nitroblue tetrazolium chloride
NE	Nuclear extract
NE _S	S-phase Nuclear extract
NE _{2AS}	S-phase Nuclear extract from YcpO ⁻ -2A transformed cells
NHEJ	Non-homologous end joining
Ni-NTA	Nickel nitrilotriacetic acid
N-terminal	Amino terminal
OD	Optical density
ORF	Open reading frame
Ori	Origin of replication
PAGE	Polyacrylamide gel electrophoresis
PBS	Phosphate buffered saline
PBST	Phosphate buffered saline with Tween-20
PCR	Polymerase chain reaction
PMSF	Phenylmethylsulfonyl fluoride

Pol	Polymerase
Pre-RC	Pre-replication complex
Rb	Retinoblastoma protein
RCR	Rolling-circle Replication
RDR	Recombination dependent Replication
REn	Replication enhancer protein
Rep	Replication initiation protein
res.	Residues (amino acid)
RIs	Replication intermediates
RNA	Ribonucleic acid
RNase	Ribonuclease
rNTP	Nucleoside triphosphates
rpm	Revolutions per minute
SD	Synthetic defined medium
SDS	Sodium dodecyl sulphate
SEM	Standard error mean
SF	Superfamily
SNF	Sucrose non fermenting
ssDNA	Single stranded DNA
TBE	Tris-borate-EDTA buffer
TE	Tris-EDTA
TEMED	N, N, N', N'-Tetramethylethylenediamine
TGMV	<i>Tomato golden mosaic virus</i>
T _m	Melting temperature
ToLCV	<i>Tomato leaf curl virus</i>
Trp	Tryptophan
ts	Temperature sensitive
Ura ⁻ DO	Uracil drop out mix
VA	Viral amplicon
WT	Wild type
X-gal	5-Bromo-4-chloro-3-indoyl-β-D-galactopyranoside
YCp	Yeast centromeric plasmid
YPD	Yeast-peptone media with glucose