

pJN-RLBP	
Cat. No.	P-003
Gene/Insert name:	<i>Renilla</i> luciferin-binding protein (RLBP)
Vector backbone:	pUC9-2
Vector type:	<i>E. coli</i>
Backbone size w/o insert (bp):	2,674
Bacterial resistance:	Ampicillin
Growth strain:	JM83
Growth temperature (°C):	37
Growth instructions:	pJN-RLBP is resistant to ampicillin (50 µg/mL)
High or low copy:	High copy
Vector map:	pJN-RLBP
Coding sequence:	Nucleotide sequence & Amino acid sequence
Plasmid sequence:	pJN-RLBP (3,229 bp)
Restriction enzyme list:	Restriction enzyme sites of pJN-RLBP
GenBank Accession No.:	AB325922
Size:	10 µg
Terms and Licenses:	MTA
Laboratory Reagent For Research Use Only	

Gene coding region (ORF: *Renilla* luciferin-binding protein)

Nucleotide sequence

ATGACCATGATTACGCCAAGCTGCAAGCTTCCAGAAGTTACTGCCAGCGAACGTGCTTACCATCTTCGTA
AAATGAAGACTCGTATGAAACGTGTCGACGTCACTGGTGATGGATTTATTTCTCGTGAAGATTATGAGCT
CATTGCCGTACGTATCGCGAAAAATGCTAAATTTATCTGCAGAAAAAGCAGAAGAACTCGTCAAGAGTTC
TTACGTGTTGCTGATCAATTGGGTTTGGCGCCCGGGGTTTCGTATTTCTGTTGAAGAAGCAGCTGTTAACG
CTACTGATTCTTTACTGAAGATGAAAGCTGAGGAAAAAGCGATGGCTGTTATTCAATCATTAATTATGTA
TGATTGTATCGATACTGATAAAGATGGTTATGTTTCTTTACCTGAATTTAAGGCTTTTTTACAAGCTGTT
GGTCCTGATATCACTGATGATAAAGCTATTACTTGTTTTAATACCCTAGATTTTAATAAAAAATGGCCAAA
TTTCTCGTGATGAGTTCTTAGTTACTGTTAATGATTTTTTATTTGGTCTTGAGGAAACTGCTTTGGCTAA
TGCATTTTATGGTGATTTATTAT**TAA**GGATCC

Amino acid sequence

MTMITPSCKLPEVTASERAYHLRKMKTRMKRVDVTGDGFISREDYELIAVRIAKIAKLSAEKAEETRQEF
LRVADQLGLAPGVRISVEEAAVNATDSLKMKAEKAMAVIQSLIMYDCIDTDKDGYSLSLPEFKAFVQAV
GPDITDDKAITCFNTLDFNKNQISRDEFVTVNDFLFGLEETALANAFYGDLL*GS

pJN-RLBP (3,229 bp)

CGCCCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCATTAATGCAGCTGGCAGCAGAGTTT
 CCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGG
 CTTTACACTTTATGCTTCCGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTACACAGGAAA
 CAGCTATGACCATGATTACGCCAAGCTGCAAGCTTCCAGAAGTTACTGCCAGCGAACGTGCTTACCATCT
 TCGTAAAAATGAAGACTCGTATGAAACGTGTGACGCTCACTGGTGATGGATTTATTTCTCGTGAAGATTAT
 GAGCTCATTGCCGTACGTATCGCGAAAATTGCTAAAATTAATCTGCAGAAAAAGCAGAAGAAAACCTCGTCAAG
 AGTTCTTACGTGTTGCTGATCAATTTGGGTTTGGCGCCCGGGTTCGTATTTCTGTTGAAGAAGCAGCTGT
 TAACGCTACTGATTCTTTACTGAAGATGAAAGCTGAGGAAAAAGCGATGGCTGTTATTTCAATCATTAAAT
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 CTGTTGGTCTGATATCACTGATGATAAAGCTATTACTTGTTTTAATACCCTAGATTTTAATAAAAAATGG
 CCAAATTTCTCGTGATGAGTTCTTAGTTACTGTTAAATGATTTTTTATTTGGTCTTTGAGGAAACTGCTTTG
 GCTAATGCATTTTATGGTGATTTATTAAGGATCCCGGAAATTGCGGAATTCGCAATTCCTGGGCC
 TCGTTTTTACAACGTGCTGACTGGGAAAAACCTGGCGTTACCCAACCTTAATCGCCTTGACGACATCCCC
 TTTGCGCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGTTGCGCAGCCTGAAT
 GGCGAATGGCGCCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTACACCCGCATATGGTGCA
 CTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGCCCGACACCCGCCAACACCCGCTGACGC
 GCCCTGACGGGCTGTCTGCTCCCGCATCCGCTACAGACAAGCTGTGACCGTCTCCGGGAGCTGCATG
 TGTGAGAGGTTTTTACCGTCATCACCGAAACGCGCGAGACGAAAAGGGCCTCGTGATACGCCATTTTTTAT
 AGGTTAATGTCATGATAATAATGGTTTCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAAC
 CCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCTGATAAATG
 CTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTGTGCGCCCTTATTCCTTTTTTG
 CGGCATTTTTGCTTCTGTTTTTGGCTCACCCAGAAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTT
 GGGTGACGAGTGGGTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCCGCCCGAA
 GAACGTTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTATTGACGCCG
 GGCAAGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGA
 AAAGCATCTTACGGATGGCATGACAGTAAGAGAAATATGCAGTGTGCCATAACCATGAGTGATAACACT
 GCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGG
 ATCATGTAATCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACAC
 CACGATGCCGTAGCAATGGCAACAACGTTGCGCAAACTATTAACCTGGCGAACTACTTACTCTAGCTTCC
 CGGCAACAATTAATGACTGGATGGAGGCGGATAAAGTTGACAGGACCACTTCTGCGCTCGGCCCTTCCGG
 CTGGCTGGTTTTATTGCTGATAAATCTGGAGCCGGTGGAGCGTGGGTCTCGCGGTATCATTTGCAGCACTGGG
 GCCAGATGGTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGAGTCAGGCAACTATGGATGAACGA
 AATAGACAGATCGCTGAGATAGGTGCCCTCACTGATTAAGCATTGGTAACTGTGACACCAAGTTTACTCAT
 ATATACTTTAGATTTGATTTAAAACTTCATTTTTAAATTTAAAAGGATCTAGGTGAAGATCCTTTTTTGATAA
 TCTCATGACCAAAAATCCCTTAACTGAGTTTTCTGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAA
 GGATCTTCTTGAGATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAAACAAAAAACACCCGCTACCAG
 CGGTGGTTTTGTTGCCGATCAAGAGCTACCAACTCTTTTTTCCGAAGGTAACCTGGCTTACGACAGCGCA
 GATACCAAATACTGTCTTCTAGTGTAGCCGTAGTTAGGCCACCCTTCAAGAATCTGTAGCACCGCCT
 ACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACCGGGT
 TGGACTCAAGACGATAGTTACCAGATAAGGCGCAGCGTCCGGCTGAACGGGGGGTTCGTGCACACAGCC
 CAGCTTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGAGAAAAGCGCCACGCTT
 CCCGAAGGGAGAAAAGCGGACAGGTATCCGGTAAGCGGCAGGGTCCGAAACAGGAGAGCGCACGAGGGAGC
 TTCCAGGGGAAAACGCTGGTATCTTTATAGTCCCTGTCGGGTTTTCCGCCACCTCTGACTTGGCGTCTGATT
 TTTGTGATGCTCGTCAGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCCTG
 GCCTTTTGGCTGGCCTTTTGTCTACATGTTCTTCTGCGTTATCCCTGATTCTGTGGATAACCGTATTA
 CCGCCTTTGAGTGAGCTGATAACCGCTCGCCGAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGA
 AGCGGAAGA

Residue	Source	Comments
1-245	1-245	pUC9-2 backbone
1-230	1-230	lac promoter/operator
246-797	1-552	RLBP ORF
801-3,229	267-2,695	pUC9-2 backbone
3,056	2,522	ori: Origin of replication
1,428-2,288	894-1,754	Amp ^r : Ampicillin resistance gene

Restriction enzyme sites of pJN-RLBP

Indication Mode: 5'Terminal of the Site

Enzyme Name	Sequence	Count	Start	Position
AccI	GT!MKAC	1	309	
ApaI	GGGCC!C	0		
Asp718I	G!GTACC	0		
BamHI	G!GATCC	1	801	
BclI	T!GATCA	1	437	
BglII	A!GATCT	0		
EcoRI	G!AATTC	1	819	
EcoRV	GAT!ATC	1	642	
HincII	GTY!RAC	2	309	489
HindIII	A!AGCTT	1	240	
KpnI	GGTAC!C	0		
MluI	A!CGCGT	0		
NcoI	C!CATGG	0		
NdeI	CA!TATG	1	1040	
NheI	G!CTAGC	0		
NotI	GC!GGCCGC	0		
PstI	CTGCA!G	1	391	
SacI	GAGCT!C	1	351	
SalI	G!TCGAC	1	309	
ScaI	AGT!ACT	1	1732	
SmaI	CCC!GGG	2	456	806
StuI	AGG!CCT	0		
XbaI	T!CTAGA	0		
XhoI	C!TCGAG	0		

Supplier	Contact us
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