

## Product datasheet for **RR201723**

### Lactb2 (NM\_001024247) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Lactb2 (NM\_001024247) Rat Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Lactb2  
 Synonyms: MGC112672  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 ORF Nucleotide Sequence: >RR201723 representing NM\_001024247  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGGCTGCCGCTCTGCAGCGCATCGAGCAGCTGTCCAGTCGGTGGTACGCGTGCTGGGCTGTAACCCGG  
 GTCCCATGACCCTGCAAGGCACCAACACGTACCTGGTGGGAACCGGCAGCAGGAGAATCCTCATTGACAC  
 GGGAGAGCCATCAGTTCAGAATATATCAGCTGTTTAAAGCAGGCCTTGGCTGAGTTTGACACCGCAATC  
 CAGGAAATCTGGTGACTCACTGGCACCAGATCATTCTGGAGGCATCGTAGACATTTGTAACCAATCA  
 GTAATGATGCCACTTATTGCATTAATAAATCTCGACGGAATCCTCAGAAAGAAGAAATTATAGGAAGTGG  
 AGAACAGCAATATGTTTATATAGAAGATGGAGACTTGATTAAGACTGAGGGAGCCACGCTCAGAGTCTTA  
 TACACTCCTGGCCACACTGATGATCACATGGCTTTACTCCTGGAAGAGGAAAAATGCCATCTTTTCTGGGG  
 ACTGCATCCTAGGAGAAGGGACAACGATATTTGAAGACCTCTCTGATTACATGAACCTCCCTAAAAGACTT  
 ACTAAAAGTCAAAGCCAACATTATATCCAGGACATGGCCAGTGATCCATAATGCCGAAGCTAAAATT  
 CTGGAATATATTTCTCACCGAAATAACCGAGAAGAACAATTATCACCGTATTCGGTGATAACCTTGAGG  
 AATCATTCTCAGTGAGCGAATTAGGAAAATGATTTACAAGAACGTTCCAGAGAATTTACATAAAATGCC  
 GGAGCATAATCTTGTCTCACTTGAGGAAACTAGAGAAAGATGGGAAAATATTTCCATCGCAAGTCCT  
 GCCAAGAAATGGAGAGCCTCCCTT

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA



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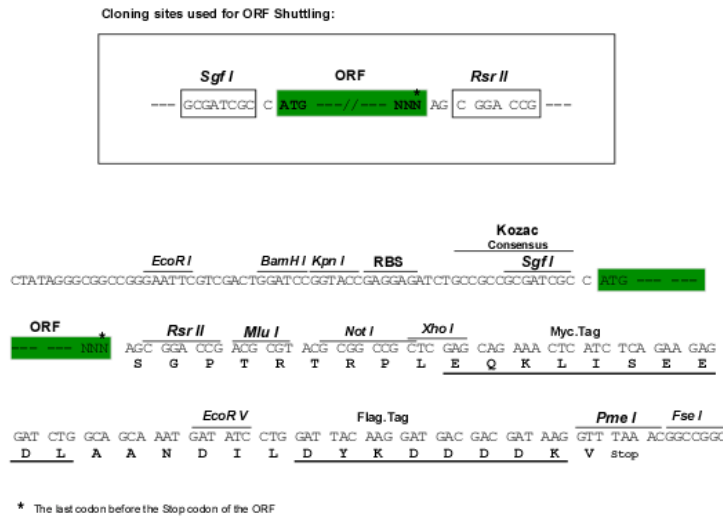
Protein Sequence: >RR201723 representing NM\_001024247  
 Red=Cloning site Green=Tags(s)

MAAALQRIEQLSSRVVRLGCNPGPMTLQGTNTYLVTGSRRLIDTGEPSVPEYISCLKQALAEFDTAI  
 QEILVTHWHRDHSGGIVDICKNISNDATYCIKKLRNPQKEEIIIGSGEQQYVYIEDGDLIKTEGATLRVL  
 YTPGHTDDHMALLLEEENAIIFSGDCILGEGTTIFEDLSDYMNSLKDLLKVKANIIYPGHGPVIHNAEAKI  
 LEYISHRNREEQIITVFRDNLEESFSVSELRKMIYKNVPENLHKMAEHNLLHLRKLKLEKDGKIFSIASP  
 AKKWRASL

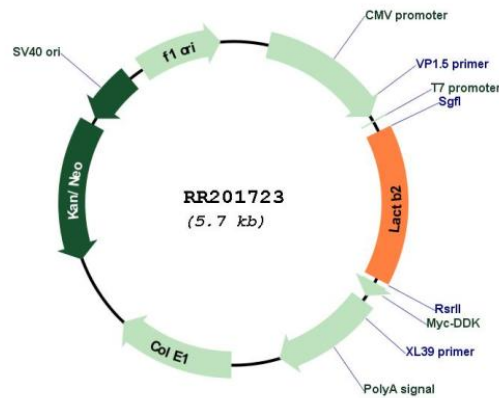
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001024247

ORF Size: 864 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001024247.1</a> , <a href="#">NP_001019418.1</a>
<b>RefSeq Size:</b>	1227 bp
<b>RefSeq ORF:</b>	867 bp
<b>Locus ID:</b>	297768
<b>UniProt ID:</b>	<a href="#">Q561R9</a>
<b>Cytogenetics:</b>	5q11
<b>MW:</b>	32.5 kDa
<b>Gene Summary:</b>	Endoribonuclease; cleaves preferentially 3' to purine-pyrimidine dinucleotide motifs in single-stranded RNA. The cleavage product contains a free 3' -OH group. Has no activity with double-stranded RNA or DNA. Required for normal mitochondrial function and cell viability. [UniProtKB/Swiss-Prot Function]