

Product datasheet for **RR214853**

Lactb (NM_001106833) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lactb (NM_001106833) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lactb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214853 representing NM_001106833
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTACCGGTTCTCTGCAAGCGTGACATCTCGGGTACGGCCACCGCAGGCCAGCCTTGGCGGAGGGC
 GCGTGGGGCGCACGGGGGACCCGGCCTGCCTATGCTGAGCCTTGGATGGCCGGCGGCCTGGGGCTCGG
 GCTGGGGCTGGCTCTTGGGGCGAAACTGGCGATTGGGCTGAGGGGCGCCGTCCCCATTAGTCCCCCGCG
 GACCCCGAGGCGTCCGGCGCTACTGAGCTGCCGCATGAGCAGGCCCGGGCCAGGGAGCCCGCACACGC
 CTGCGTCGCCCCGCTGCCAGGGGCTTCTCCAGAGCCATAGAGAGCAGCCGCGATCTGCTGCACCGGATCAA
 GGTAGAGTTGGTCCCTGGCATAAGTGGTTGGAGTTTCTGTAGATGGAAAAGAAGTCTGGTCAGAAGGT
 TTAGGCTATGCAGATGTGGAGAACCAGTACCCTGCAAACCAGAAACGGTCATGAGAATTGCAAGCATCA
 GCAAAAGCCTTACCATGGTGGCTCTGGCTAAACTGTGGGAAGCAGGAAGCTGGATCTGGACCTCCCCGT
 GCAGCACTATGTCCTGAGTTCCAGAAAAAGAATACGAGGGTAAAAGGTCTCTGTCAACAGAGATTA
 CTAAATTTCCCACTTAAGTGAATTCGTCAATTATGAAAAGGACATGAAGAAAGTAAAAGAAGAAGGCTT
 ATAAAGCCTTGAAGATGATGAAAGGGACACCACCCCTGACCAAGAGAAAAGAACTGAAAGAAAAGGAGG
 CAAGGATAACGACAAGAGCGACTCACCGAAAGCCAAAGCTGAGCAGGACAGTGAAGCCAAATGCCGACG
 GCAAAAGCCGGCAAGAAGAAGAAAGTACTTTGAACAAGGCGAATTAATTTGAAAGAAAAGTTGAAAATT
 CGATCGAATCACTAAGATTATTTAAAAATGATCCTTTATCTTTAAACCTGGTAGTCAGTTTTTGTATTC
 AACGTTTGGCTATACTCTGCTGGCAGCCATAGTAGAAAAGAACTTCAGGATATAAATTTGGACTATATG
 CAGAAAAATTTCCATGATTTGGACATGCTGACAAGTCCAGGAAGAAAACGAGCCAGTGATTTACAACA
 GAGCAAGATTTTATGTGTACAATAAAAAGAAACGTCTTGTCAACACACCTTACGTGGATAACTCCTATAA
 ATGGGCTGGTGGTGGATTCTGTCCACGGTGGGGACCTCCTGAAGTTTGGGAATGCAATGCTGTATGGC
 TACCAAGTTGGGCTGTTAAGAAGTCAAATGAAAATCTCTTGCCTGGATATCTCAAGCCAGAAAACGATGG
 TGATGATGTGGACCCAGTCCCTAACACAGAGATGTCCTGGGATAAAGAGGGCAAATATGCCATGGCGTG
 GGGTGTGTAGAGAAGAAGCAAACGCACGGCGCCTGCAGGAAGCAGCGGCACTACGCCTCACACTGGA
 GGTGCCGTGGGTGCCAGCAGTGTGCTGCTGCTCCTGAAAGAACTGGACCCAGAGGCCGTAACAACA
 AGGTTCCCCGAGGGGAATAATGTCTCAATCATATGCAACATGCAGTCTGTGGGCTCAACAGCACTGC
 TTTAAAGATCGCCCTGGAGTTTGATAAAGACAGAGCCGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214853 representing NM_001106833
 Red=Cloning site Green=Tags(s)

MYRFLSSVTSRATATAGPALGGRRGAHGRPLPMLSLGWAGGLGLGLLALGAKLAIGLRGAVPIQSPA
 DPEASGATELPHEQAPGPGSPHTPASPAARGF SRAI ESSRDLLHRIKDEVGAPGIVVGVSVDGKEVWSEG
 LGYADVENRVPCKPETVMRIASISKSLTMVALAKLWEAGKLDLDPVQHYVPEFPEKEYEKEKVSVTTRL
 LISHLSGIRHYEKDMKKVKEEKAYKALKMMKGTPPPDEKELKEKGGKDNKSDSPKAKAEQDSEAKCRS
 AKPGKKKNDFEQGELYLKEKFENSIESLRLFKNDPLFFKPGSQFLYSTFGYTLAAIVERTSGYKYLDYM
 QKIFHDLMLTTVQEENEPVIYNRARFYVYNKKRLVNTPYVDNSYKWAGGGFLSTVGDLLKFGNAML YG
 YQVGLFKNSNENLLPGYLKPEVMVMWTPVPNTMSWDKEGYAMAWGVVEKKQTHGACRQRHYASHTG
 GAVGASSVLLVLP EELDPEAVNNKVP PRGIIIVSII CNMQSVGLNSTALKIALEFDKDRAD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

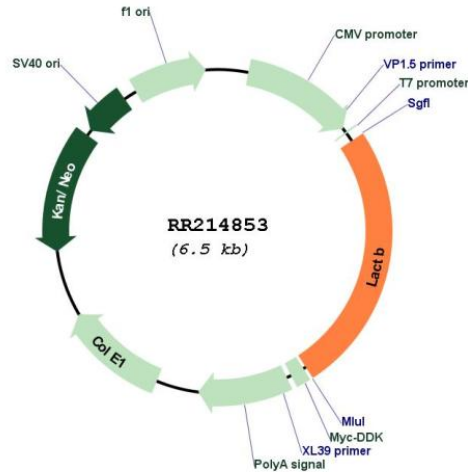
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001106833

ORF Size: 1650 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_001106833.1](#), [NP_001100303.1](#)

RefSeq Size: 1987 bp

RefSeq ORF: 1653 bp

Locus ID: 300803

Cytogenetics: 8q24

MW: 60.4 kDa