

Product datasheet for **RR206567**

Lad1 (NM_001107942) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lad1 (NM_001107942) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lad1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206567 representing NM_001107942
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGTCAGCAGAAAGGACTGGTCCGCGCTGTCTAGCCTGGCCCGCAGAGGACTTTGGAGGATGAAG
 AGGAACAGGAGCGTGAACGCAGGCGGAGGCACCGCAACCTGAGTTCAACACAGAGGATGAATCTCCAAA
 ACTCACCCAGAATGGAGCTCAGAGATCTGTGGAGAGGCTGCCAGTGTGGAGGAAGCAGAGGTCTCCAAG
 CCATCCCCCTCCAGCCTCCAAAGACGAAGGCGAAGATTCCAGGCCATCCTCAGGACCAGAAAAGGGCGGA
 GACAGAGGCAGCAGGTGGTAGGGCTGTCCAGGCTCCGGGACAGGAGAAGGTAGAGGCAGAGGAGGAAAAG
 GGACAGCCTGGGCCCTGAGCAGACCGTGTGCGAGCCCCTTGTGCCTAAGAAGAAAGTGGAGTCCCTGCCT
 CGCGGAGACTGAGTCGGGAGCAGCGAGGCCCTTGGGCCAGGAAGAAGTGTCTAAAGAGCAGAGAGC
 TTGTGGAAGGAGAAAAGGGCGTCCAGAGGAGACAGCAGCTCAGCAGAAATCGCCTGTCTCAGAGAAAAC
 CCCAGTGTCCGCAAGAGACTGGTTTCGAGAAAAGCCTGCCCTCAGAGAAGGGGACAGCCACAGAGAAA
 GCGTCTCCAACCGAGAAAAGACCAGAGAAGTTGGTTCCAGAAAAGAACAAGTGTGACAGAGAAGTCCACG
 CCCCTGAGAAGACACTTGTGTCCCTGAAGACAGCAGCACCAGAGAGAAGGTCCCTCCAGTTCTAGAAAA
 AGCCACCGTCTCTGAGAAGATGCAGGAGAGGAAGCTGGTGTCCGAGAAAGCGTCCATCTTCGAGAAGCCA
 CTGGTCTCAGAGACGAAGCTGACTCCAAAGAAGGCAGCGGTGTGACAGCAGCCCCAGACCCTGGGGGAA
 GCCAGGCCACCACGAGGGAGGTGAGCGGAAGGGCCCTCCCTGGGAAGAGCCCACCTTCTCTGCAGAGCA
 GAGCGCACAGACCCGCGACTAAAGCGTCTCGCTTCTACCCGTCACTGCAGGTGAAAATCCCAGC
 AAGGATGAAGATGCAGACATATCTTACCCACACTCACCTACAGCAGTCCCTCAAGCGTCCAGCCCCA
 GGACCTCTCCTCCGGATGAGCCTCAAGAAAGACAACCCAGAAAACAACCTTAACCCGAGTCCAGTGT
 GAGGCTGCCGGCTAGCACAGTCAAGCTAGGGGAGAAAAGTGGAGAGATATCACACGGCCATCCAGAGGTCA
 GAATCCGTGAGTCTCCAGGCTCCTCCCGTACCGAAGTCTTGTACTCCTGCTGGTGTAGCCAGCAAGC
 GCCACCTCTTTGAGAAGGAACTGTGAGGCCAGAACCGCACAGAACCAACCTCCATCCGAAAGGAGAATCT
 GCGTCTGTGAGGGTCTGACATCCAAACTTAACCTGTGGATAAGCAGGACCCAGGATTCGGGAGACCAC
 GGTCTCAGGAGGTACGAAAAGAGGCATCAGCCACCAAGAGGGCTCAGTGGGAAACAAGTCAACCCACAT
 CTCTGGATGCAGAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206567 representing NM_001107942
 Red=Cloning site Green=Tags(s)

MSVSRKDWSSALSSLARQRTLEDEEEQERERRRRHRNLSSTTEDESPKLTQNGAQRSVERLPSVEEAEVSK
 PSPPAASKDEGEFQAILRTRKGRQRQVVAVQAPGQEKVEAEERDSLGPETVSQPLVPKKKVESLP
 RRRLSREQRGPWAQEEELKSRELVEGEKGRPEETAQQKSPVSEKTPVSAKRLVSEKACPSEKGTATEK
 ASPTEKRPEKLVPERTSVTEKSPAPEKTLVSLKTAAPERRSPPVLEKATVSEKMQERKLVSEKASIFKFP
 LVSETKLTTPKKAIVSEQPQTPGGSQATTREVSGRALPGKSPSSAEQSAPDPPTKASRFLPVTLQVKIPS
 KDEDADISSPTLTYSSSLKRSSPRTISFRMSLKKDNPETTLTRSASVRLPASTVKLGEKLERHYHTAIQRS
 ESVRSPGSSRTEVLVTPAGVASKRHLFEKELSGQNRTEPTSIRKENLRLSGVVTSKLNLIWISRTQDSGDH
 GPQEVKREASATKRAQWGNKSTSLDAEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

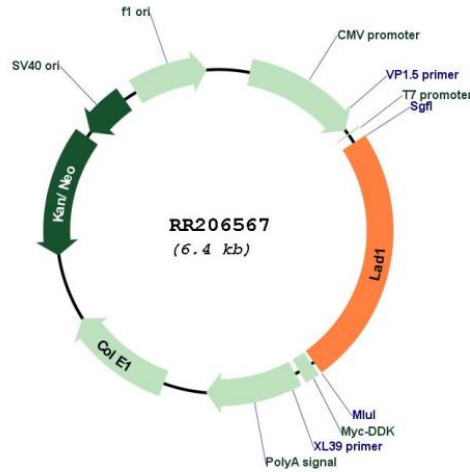
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001107942

ORF Size: 1557 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_001107942.2](#), [NP_001101412.2](#)

RefSeq Size: 2210 bp

RefSeq ORF: 1560 bp

Locus ID: 313325

Cytogenetics: 13q13

MW: 57.4 kDa