

Product datasheet for **RR205455**

Lag3 (NM_212513) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lag3 (NM_212513) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lag3
Synonyms:	CD223
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR205455 representing NM_212513
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCAGGATCTGTTCTTACCTTTTCTGCTCTGCAGCTGCTTGGGAAGCTCCAGTTGTGTCTTCAG
 GGCTGGGAAAGAGCTCTCCGTGGTGTGGGCCAGGAGGAGCTCTGTCCATCTTCCCTGCAGCCTCGA
 ATTTCCCCACCTGGATCCCAACTTTCTGCGAAGAGGATGGGTACCTGGCAACATCGACCAGACAGTGAC
 CAACCCGCTTCCATCCCGGCCCTTGACCTTCTCCAGGGAATGCCCTCGACTAGGAGACACCCACCCCATC
 GCTACACGGTGTGAGTGTGGCTCCAGGAGGCCTGCGCAGCGGGAGGCAGCCCTGCTATCCACGTGCA
 GCTGGAGAAGCGTGGCCCCAGCGCGGGGACTTCTCTGTGGTTGCGCCAGCTACGCGCAAAGATGCG
 GCGGAGTACCACGCTTCGTGCGCTCCCGACCGCGACTTCTCTGCAGCTCCGCTGCGCGTCGGCC
 AGGCCTCGATGATTGCCAGTCCCCAGGAACCTCAAGCCGTCTGATTGGGTCAATTTGAAGTCTCCTT
 CAGTCGTCTGACCGCCAGTCTCTGTGACTGGTTCCAGGGCCAAAGCCGAGTGCCCGTCCACAATTCA
 CCCCGTCAATTATCTAGCTGAAAGTTTCTCTTACTGCCCAAGTCAGCCACTGGATTCCGGGACCTGGG
 GCTGTGCTCTCACCTACAGAGATGGCTTCAATGTCTCCATCACGTACAACCTCAAGTTCCAGGTCTGGA
 ACCTGTAGCCCTTTGACAGTGTACGCTGCTGAAGTTCTAGGGTGGAGCTGCCCTGCACTTGCCTCCC
 GTTGTGGGACCCCTTCTTTGCTCATTGCCAAGTGGACTCCTCTGGGGAGGTCTGAGCTCCCGTGA
 CTGAAAGAGTGGCAATTTTACCCTTCACTTGAGAAATGTGGGTGCGGCACAGGCTGGGACCTACACCTG
 CAGCATCCATCTGCAGGGGCGCAGCTCAGTCCGGCTGTGACGTTGGCAGTCATCACAGTACTCCTAAA
 TCCTTCGGGTACCTGGCTCCCCGAGAAGCTGTTATGTGAGGTAGTCCCGCATCTGGAGAAGGAAGAT
 TTGTGTGGCGCCCCCTCAGCGATCTGTCCAGGATTCCCTGGGCCCTGTGCTGGAGTTGCAGGAGCCAA
 GCTTCTGGCTGAGCAATGGCAGTGTGACTGTATGAGGGCCAGAACTTCTTGGAGCAACAGTGTACACC
 GCAGAGTCTAGCTCAGGCGCTGGAGTGTAAAGAAATCTCAGGTGACCTTAAAGAGGCCATCTCTTCC
 TCTCTCATCTTGGTGCCTTGCCTTGTCTTGGTACCAGGGGCTTTGGCTTTCACCTGTGGAG
 AAGACAGTTGCTACGGAGAAGATTTTCTGCCTTAGAGCATGGGATTGCCACCTCCGGTTCAGAGTAAG
 ATAGAGGAGCTGGAGCGAGAACCAGGAGCCGAGATGGAACAGAGACAGAGCCCGATCCGGAGCCTCAGC
 CGGAGCCCGAGCTGGAACAGAGTCCAGGCAGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205455 representing NM_212513
 Red=Cloning site Green=Tags(s)

MRQDLFLDLLLQLLWEAPVSSGPGKELSVVWAQEGAPVHLPCSLFPHLDPNFLRRGWVTWQHRPDS
 QPASIPALDLLQMPSTRRRPHRYTVLSVAPGGLRSGRQPLL SHVQLEKRGPRQGFSLWLRPATRKDA
 GEYHAFVRLPDRDFSCSLRLRVGQASMIASPPGTLKPSDWVILNCSFSRPDRPVSVHWFQGSRVPHNS
 PRHYLAESFLLLPQVSPLDSGTWGCVLTYRDGFNVSITYNLKVQGLEPVAPLTVYAAEGSRVELPCHLPP
 VVGTPSLLIAKWTPPGGPELPVTGKSGNFTLQLENVGRAQAGTYTCSIHLQGRQLSAAVTLAVITVTPK
 SFGLPGSPQKLLCEVVPASGEGRFVWRPLSDLRSSLGPVLELQEAKLLAEQWQCQLYEGQKLLGATVYT
 AESSSGAWSAKRISGDLKGGHFLSLILGALALFLLVTGAFGFHLWRRQLRRRFSALEHGIRPPPVQSK
 IEELEREPETEMEPETEPDPEPQPEPELEPESRQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

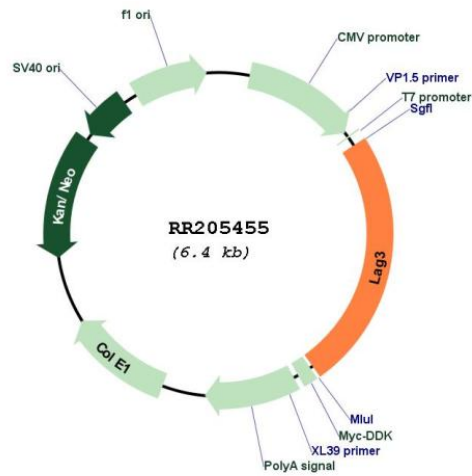
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_212513
ORF Size:	1575 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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:	<u>NM_212513.2</u> , <u>NP_997678.2</u>
RefSeq Size:	1817 bp
RefSeq ORF:	1578 bp
Locus ID:	297596
UniProt ID:	<u>Q5BK54</u>
Cytogenetics:	4q42
MW:	58 kDa
Gene Summary:	mouse homolog regulates the proliferation of activated T-cells [RGD, Feb 2006]