

Product datasheet for **RR200747**

Lsg1 (NM_001013421) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lsg1 (NM_001013421) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lsg1
Synonyms:	RGD1309089
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR200747 representing NM_001013421
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCCGGAGAAGACGCCGGGTGGTGGTCACTGGTCCGGTACTTATCCGGCATCAGACTCAACGAA
GCCGCAGTCACCGTCATACTGACTCCTGGCTGCATACGAGTGAACCAATGATGGTTATGATTGGGGACG
TCTGAATCTTCAGTCAGTGACGGAACAGAGCTCCCTCGAGGACTTCTTGCAACTGCAGAACTTGCAGGG
ACGGAGTTCGTGGCTGAGAAGCTTAATATTAAGTTTGTGCCCCCTGAGGCTAGAAGTGGACTGCTGTCTT
TCGAGGAGAGCCAGAGAATTAAGAGACTCCATGAAGAAAACAGACAGTTCCTGTGTATACCAAGGAGACC
AAATTGGGACAGAAAACTAGCCCTGAAGAAGTAAACAAGCAGAGAAAGATAACTTTCTAAAATGGAGG
CGCCAGCTTGCCGGCTAGAAGAAGAACAAGTTGATATTGACTCCCTTTGAACGGAATTTGGACTTCT
GGCCAGCTCTGGAGGGTCATTGAGAGAAGTATATTGGTCCAGATAGTAGTCTCGGAACCCGCT
CCTGTTACAGATGTGAGGATTTGGAATGTTACGTGAAGGAGATAGATGCTGCCAAGGAGAATGTGATTCTG
ATAAACAAGGCAGACTTGTGACTGCTGAGCAGAGGGTTGCCCTGGGCTGTGCACTTTGAGAAAGAAGGTG
TGAAGGTTATCTTCTGGTCAGCTTTGGCAGAAACCGTTCACCTAAATGGTGAAGTGAAGTAA
CAGTGTGCTGGAGAAGCCAACAGCTCTGAGTCTGAAGACTCCAGTTTGGACGGGAATGAAATCCACAC
AGAGACTTGTCTTGTCTAGTGAGGAGTCCGAAAGTGACGATGACGACAGTGAGTATGAGGACTGTCAGG
AGGACGAGGAGGAAGATTGGCAGACGTGTTCTGAAGAAGATAGCAATCCTGAGGAGGGCAGGAGGAAGG
GGGCTGTGATCGGACCAGAAGGAACACGGTCTGAGGATTCTGAGGCTCAGAGCAGAGCATCACCAGAA
AATTCACAGATGAGCAACAAGAGCCATCTGGTCTCGAAGCAGGAGTTACTAGAGCTTCAAGAACTCC
ACACTGGGAAGAAGGTGAAAGACGGACAGCTGACTGTAGGGCTGGTGGGCTACCTAATGTTGGTAAGAG
CTCAACCATCAACACCATCATGGCAACAAGAAAGTATCGGTGTCTGCCACGCCAGGCCACACCAAGCAT
TTCCAGACCCTGTACGTGGAGCCAGGCCTCTGTCTGTGTGACTGCCCGGCCTGGTGTGATGCCATCTTTTG
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TGTATCACTAGTTTGCCAGAATATCCCAGGGCAGTTTTAGAAGCTACCTATGGCATTAAACATTATAAAG
CCTGGAGAAGATGAAGACCCCTACCGACCTCCGACCTCAGAAGAGCTGTTGACAGCTTATGGATGCATGC
GGGATTTCATGACAGCACACGGACAGCCAGACCAGCCTCGGTCTGCACGATACATCCTGAAGGACTACGT
CAGAGGTAACCTTCTGTATTGTCACCCTCCTCCTGAAAAAGACCCTGTGGCATTCCAGCATCAACACAGG
CAACTCCTAGAGAACAAAATAAAAGGTGAAGAAGTGAAGGCTTCCAGCCAGGCAAAACCCAAAAGCCAAAC
AGGTTGAAAATGTAGTCGACAAGACTTTTTCCATCAGGAGAATGTCAGAGCATTGACCAAAGGGGTCCA
GGCTGTATGGGTTACAAGCCCGGGAGTGGCCTGGTGAAGTGCAGCTGCTGCGAGTGTGAGAACGTACCT
GGGAAGCCCTGGAAAAACACGGTAACAGAAAACAAAAAGAGAAAAGCCGAGGCTCTACAGGCACCTGG
ATGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200747 representing NM_001013421
 Red=Cloning site Green=Tags(s)

MGRRRAPGGGSLGRVLI RHQTQRSRSHRHTDSWLHTSELNDGYDWGRNLQSVTEQSSLEDFLATAELAG
 TEFVAEKLNIKFPPEARTGLLSFEESQRIKRLHEENRQFLCIPRRPNWDRKTSPEELKQAEKDNFLKWR
 RQLVRLLEEQLILTPFERNLDFWRQLWRVIERSDIVVQIVDARNPLLFRCEDLECYVKEIDAAKENVIL
 INKADLLTAEQRVAWAVHFEKEGVKVI FWSALAEVHLNGDSKDEVNSVAGEANSSESEDSLDGNEIPH
 RDLFLLSEESESDDDSEYEDCQEDEEEDWQTCSEEDSNPEEGQEEGGCDRDQKEHGPEDSEAQSRASPE
 NSQMSNKSHLVSKQELLELFKKLHTGKKVKDQGLTVGLVGYPNVGKSSINTIMGNKVSVSATPGHTKH
 FQTLYVEPGLCLCDPGLVMPFVSTKAEMICSGILPIDQMRDHVPPVSLVCQNI PRRVLEATYGINIIK
 PGEDEDPYRPTSEELLTAYGCMRGFMTAHGQPDQPRSARYILKDYVRGKLLYCHPPP GKP VAFQHQR
 QLLENKIKGEELRLQPGKTQKAKQVENVDKTFHFQENVRALTKGVQAVMGYKPGSGLV TAAAA SAENVP
 GKPWKKHGNRNKKEKSRRLYRHLDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

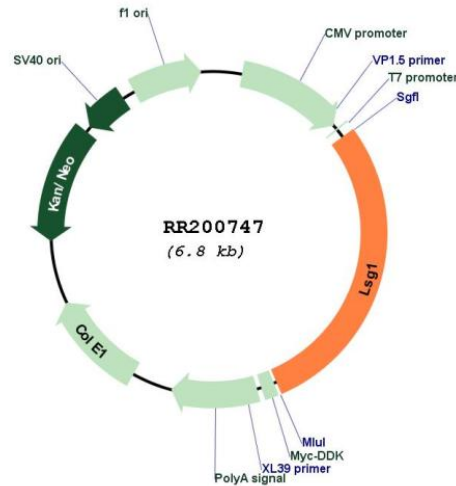
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001013421

ORF Size: 1965 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_001013421.1](#), [NP_001013439.1](#)

RefSeq Size: 2283 bp

RefSeq ORF: 1968 bp

Locus ID: 288029

UniProt ID: [Q5BJT6](#)

Cytogenetics: 11q22

MW: 74.4 kDa

Gene Summary: GTPase required for the XPO1/CRM1-mediated nuclear export of the 60S ribosomal subunit. Probably acts by mediating the release of NMD3 from the 60S ribosomal subunit after export into the cytoplasm (By similarity).[UniProtKB/Swiss-Prot Function]