

## Product datasheet for **MG212411**

### **Lsg1 (NM\_178069) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Lsg1 (NM_178069) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Lsg1
Synonyms:	5830465I20; AA409273; D16Bwg1547e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG212411 representing NM\_178069  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTCGGAGACGAGCGCCGGTGGTGGGTCCCTGGGCCGAGTACTTATCCGGCAGCAGACTCAGCGAA  
 GCCGCAGCCACCGTCATACTGACTCCTGGCTGCATACAAGTGAAGTCAATGATGGCTATGACTGGGGTCG  
 TCTGAATCTTCAGTCTGTGACAGAGCAGAGCTCCCTGGAGGACTTCTTGCACACTGCAGAACTTGCAGGG  
 ACCGAGTTTGTGGCTGAGAAGCTGAATATTAAGTTTGTACCCCTGAGGCTAGAACCAGGACTGCTGTCTT  
 TTGAGGAGAGCCAGAGAATTAAGAACTCCACGAAGAAAACAGACAGTCTTGTGTATACCAAGGAGGCC  
 AAATTGGACAGAAAACTAGCCAGAAGAACTGAAACAAGCAGAGAAAGATAACTTCTGAAATGGAGG  
 CGCCAGCTTGTGCGGCTAGAAGAGGAACAGAAGTTGATATTGACTCCCTTGAACGGAAGTTGGACTTCT  
 GGCAGCTCTGGAGGGTCATTGAGAGAAGTATTTGGTCCAGATCGTAGATGCTCGAAACCCGCT  
 CCTGTTTATAGTGTGAGGATTTGGAGTGTACGTGAAAGAGATCGATGCTGCCAAGGAGAAGCTGATCCTG  
 ATAAACAAGGCAGACTTGTCTGACTGCTGAGCAGCGGTTTGCCTGGGCTGTGCACTTTGAAAAGGAAGGGG  
 TAAAGTTATCTTCTGGTCAGCTTTGGCAGAACTGATACCTAAATGGTGAAGGAGGAAGTAGA  
 CAGTGTGCTGGAGACACCAACAAAACAGAGTCTGAAAGCTCCAGTTTGGATGCGAATGAAATCCCACAC  
 AGAGACTTGATCTCGCTTAGTGAGGAGTCCGCAAGTGACAGTGGTACAGCAAATATGAGGACTGTCAGG  
 AGGACGAAGAGGAAGATTGGCAGACGTGTTGAGAAGAAGCAGCGTCCCTGAGGAGGAGGAGGGCTGTAA  
 TGCGGATTCTGAGACTCAGAACAGAAAAACGCAGAAAATCAACAAGTGAACAATGATAGCTACCTGGTG  
 TCGAAAACAGGAATTACTGGAACCTTTAAGAACTCCACTGGAAGAAAAGTGAAGATGGACAGCTAA  
 CTGTTGGGCTGGTGGCTACCCATATGTTGGTAAGAGCTCAACCATCAACACCATCATGGCAACAAAGAA  
 AGTATCGGTGTCTGCCAGCGCCAGGCCACACAGCATTTCAGACCCTGTACGTGGAGCCTGGCCTCTGC  
 CTGTGTGACTGCCCGGGCCTGGTGTGATGCCATCTTTCGTGTCCACCAAAGCAGAGATGATTTGCAATGGGA  
 TCCTCCCTATCGACCAGATGAGAGACCAGTTCACCCGTACTACTAGTTTGCAGAAATATCCCACGGCG  
 AGTTTTGGAAGTGACATATGGTATTAACATTATAAAGCCTAGAGAAGATGAAGACCCCTACCGACTCCA  
 ACCTCAGAAGAACTGTTGACGGCTTATGGATGCATGAGAGGATTCATGACAGCACATGGGAGCCAGACC  
 AGCCTCGATCTGCACGGTACATCCTAAGGACTATGTTGGAGGTAAGTACTGTATTGCCACCCTCTCC  
 TGGAAAAGACCCTGTGGCGTTCAGCACCAACACCAGCAGCTCCTAGAGAGCAAAGTAAAAGGTGGAGAA  
 CTGAGACTTCAGCCGGGCAAAGCCGAAAAGCCAAACAGATCGAAAATGTAGTCGACAAAACCTTTTTTCC  
 ATCAGGAGAACGTCAGAGCACTGACCAAAGGTGTCCAGGCTGTCATGGGTTACAAGCCCGGGCATGGCCT  
 GGTGACTGCGGCTGCTGCGAGCGCTGAGAATGTACCTGGGAAGCCCTGGAAAAACACGGTAACAGAAAAC  
 AAAAAAGAGAAAAGCCGTAGGCTCTACAAGCACCTGGATGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG212411 representing NM\_178069  
 Red=Cloning site Green=Tags(s)

MGRRRAPGGSLGRVLIRQQTQRSRSHRHTDSDLHTSELNDGYDWGRNLNLSVTEQSSLEDFLATAELAG  
 TEFVAEKLNIKFPPEARTGLLSFEESQRIKKLHEENRQFLCIPRRPNWDRKTSPEELKQAEKDNFLKWR  
 RQLVRLLEEQLILTPFERNLDFWRQLWRVIERSDIVVQIVDARNPLLFRCEDLECYVKEIDAAKENVIL  
 INKADLLTAEQRFQFAVAVHFEKEGVKVIWFSALAEVDHLDLKEEVDSVAGDTNKTESESSLDANEIPH  
 RDLISLSEESASDSGDSKYEDCQEDEEEDWQTCSEEDSVPEEEEGCNADSETQNRKNAENQQVNNDSYLV  
 SKQELLELFKHLHTGKKVKDGLTVGLVGYPNVGSSTINTIMGNKKVSVSATPGHTKHFQTLTYVEPGLC  
 LCDPGLVMPFSVSTKAEMICNGILPIDQMRDHVPPVSLVCQNIIPRRVLEVITYGINIIKPREDEDPYRPP  
 TSEELLTAYGCMRGFMTAHGQPDQPRSARYILKDYVGGKLLYCHPPPDKDPVAFQHQHQLLESVKVGGE  
 LRLQPGKGRKAKQIENVVDKTFHFQENVRALTKGVQAVMVGKPGHGLVTAASAENVPKPKWKHGNRN  
 KKEKSRRLYKHLDV

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM\_178069

ORF Size: 1932 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\\_178069.5](#), [NP\\_835170.1](#)

RefSeq Size: 2373 bp

RefSeq ORF: 1935 bp

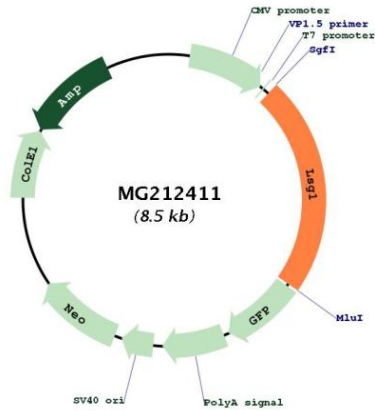
Locus ID: 224092

UniProt ID: [Q3UM18](#)

**Cytogenetics:** 16 21.34 cM

**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]

**Product images:**



Circular map for MG212411