

Product datasheet for **RG209941**

LMOD1 (NM_012134) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LMOD1 (NM_012134) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LMOD1
Synonyms:	1D; 64kD; D1; MMIHS3; SM-LMOD; SMLMOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209941 representing NM_012134
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTAGAGTAGCCAAATATCGCCGGCAGGTGAGTGAAGACCCCGACATCGACAGCCTGCTGGAGACCC
 TGTCTCCCGAGGAGATGGAGGAGCTGGAGAAGGAGCTGGACGTGGTGGACCCAGACGGGAGTGTCCCGT
 GGGGCTCGCGCAGAGAAAACCAGACGGAGAAAACAGTCCACGGGTGTGTACAACCGGGAGGCCATGCTCAAC
 TTCTGTGAAAAGGAGACCAAGAACTTATGCAGAGGGAGATGTCCATGGATGAAAGCAAGCAAGTGGAGA
 CCAAGACAGATGCCAAGAATGGAGAGGAAAGGGCAGAGATGCCAGCAAAAAAGCCCTGGCCCCAGACG
 GGACTCAGATCTGGGAAGGAGCCAAAGAGGGTGGTTTAAAGAAAAGCTTCTCTAGAGACAGAGATGAA
 GCTGGTGGCAAGAGTGGCGAGAAGCCAAAGGAGGAGAAGATCATCCGGGGCATTGACAAGGGCCGGGTCA
 GGGCTGCAGTGGATAAGAAGGAGGCAGGAAGGATGGGAGAGGAGAGGAGAGGGCAGTGGCCACCAAGAA
 GGAAGAGGAGAAGAAAGGGAGTGACAGGAACACAGGCTTGAGCAGGGACAAGGATAAAAAGAGAGAGGAG
 ATGAAGGAGGTGGCCAAGAAAGAGGATGATGAGAAGGTAAAAGGGGAGCGTAGGAACACAGACACCAGAA
 AAGAGGGTGAAGAAGTAAAAGAGCAGGTGGGAACACAGACATGAAAAGGAGGATGAGAAGTAAAAAG
 AGGAACTGGGAACACAGACACCAAAAAGGACGATGAAAAGTCAAGAAGAATGAACCTTACATGAAAAG
 GAAGCCAAGGATGACAGCAAGACCAAAACACCCGAGAAACAGACGCCAGTGGCCCCACCAAGCCCTCTG
 AAGGACCGGCCAAGGTGGAGGAGGAGGCAGCTCCACGATATTTGATGAGCCTCTGGAGAGAGTGAAGAA
 CAATGACCCCGAGATGACTGAGGTGAACGTCAACAACCTCAGACTGCATCACAAATGAGATCTTGGTCCGG
 TTTACTGAGGCTCTGGAGTTCAACACTGTGTTAAGCTGTTCCGCTTGGCCAACACGCGAGCCGATGACC
 ACGTGGCCTTTGCCATTGCCATCATGCTCAAGGCCAACAAAGACCATCACAGCCTCAACCTGGATCCAA
 CCACATCACAGGCAAGGCATCCTGGCCATCTCCGGGCCCTCCTCCAGAACAACACGCTGACCGAGCTC
 CGCTTCCACAACAGCGACACATCTGTGGAGGCAAGACGGAGATGGAGATCGCCAAGCTGCTGAAGGAGA
 ATACTACCCTGCTCAAGCTGGGCTACCATTTTGTAGCTGGCCGGGCCCGAATGACTGTCACCAATCTGCT
 CAGCCGCAACATGGACAAGCAGAGACAAAAGCGGCTGCAGGAGCAAAAGGCAGGCACAGGAAGCCAAGGGA
 GAGAAGAAGGATCTGCTGGAGGTACCAAGGCCGGGGCCGTGGCTAAGGGCTCCCCAAAACCTTACCTC
 AACCATCTCCAAAGCCCTCTCCAAAGAACTCACCAAAAAGGGGGTGTCCAGCTGCCCCACCACCCCC
 TCCCCCTCCCTTGGCTCCACCCCTTATCATGGAGAACCTGAAGAATCACTCTCACCAGCTACCCAGAGG
 AAGATGGGAGACAAAGTCTCCCTGCCAGGAGAAGAACTCCCGTGACCAGCTATTGGCTGCCATCCGCT
 CCAGCAACCTCAAGCAGCTCAAGAAGGTGGAAGTGCCCAAACTGCTTACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209941 representing NM_012134
 Red=Cloning site Green=Tags(s)

MSRVAKYRRQVSEDPDIDSLLETLSPEEMEELEKELDVVDPDGSVPVGLRQRNQTEKQSTGVYNREAMLN
 FCEKETKKLMQREMSMDESKQVETKTDAKNGEERGRDASKKALGPRRSDLGKEPKRGGLKKSFSRDRDE
 AGGKSSEKPKKEEKIIRGIDKGRVRAAVDKKEAGKDGRGEERAVATKKEEKKGSDRNTGLSRDKDKKREE
 MKEVAKKEDDEKVKGERRNTDRKEGEKMKRAGGNTDMKKEDEKVKRGTGNTDTKKDDEKVKKNEPLHEK
 EAKDSSKTKTPEKQTPSGPTKPSSEPAKVEEEAAPSIFDEPLERVKNNDPEMTEVNVNNSDCITNEILVR
 FTEALEFNTVVKLFALANTRADDHVAFIAIIMLKANKTITSLNLDNSNHITGKGILAIFRALLQNNTLTEL
 RFHNQRHICGGKTEMEIAKLLKENTTLKLGYPHFELAGPRMTVTNLLSRNMDKQRQKRLQEQRQAQEAKG
 EKKDLLEVPKAGAVAKGSPKPSQSPKPSPKNSPKKGGAPAAPPPPPPLAPPLIMENLNKNSLSPATQR
 KMGDKVLPAQEKNRSDQLLAAIRSSNLKQLKKVEVPKLLQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_012134

ORF Size: 1800 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_012134.3](#)

RefSeq Size: 3967 bp

RefSeq ORF: 1803 bp

Locus ID: 25802

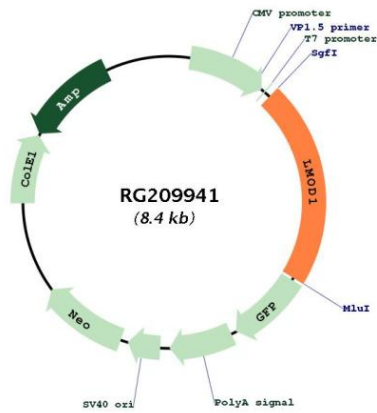
UniProt ID: [P29536](#)

Cytogenetics: 1q32.1

Domains: WH2, Tropomodulin

Gene Summary: The leiomodlin 1 protein has a putative membrane-spanning region and 2 types of tandemly repeated blocks. The transcript is expressed in all tissues tested, with the highest levels in thyroid, eye muscle, skeletal muscle, and ovary. Increased expression of leiomodlin 1 may be linked to Graves' disease and thyroid-associated ophthalmopathy. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209941