

Product datasheet for **MG201478**

Lim2 (NM_177693) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lim2 (NM_177693) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Lim2
Synonyms: 19kDa; 4833403J20; MP19; To3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201478 representing NM_177693
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTACAGCTTCATGGGTGGCGCCTCTTCTGTGCCTGGGTGGGACCATCCTGTTGGTGGTAGCCACAG
 CAACTGACCACTGGATGCAGTACCGGCTGTCGGGGTCTTCGCACACCAGGGCCTGTGGCGTTACTGCCT
 GGGCAACAAGTGCTTCTGCAGACCGAGAGCATCGCATATTGGAATGCCACCCGGGCTTTCATGATCCTG
 TCTGCCCTGTGTCCACCTCGGCATCATATGGGTGTCCTAGCCTTTGCGCAGCAATCCACCTTACCC
 GTCTCTCCAGGCCCTTCTGCCGGCATCATGTTTTTGCCTCCACCCTTTTTGCCTGTTGTCTTGGC
 TATTTACTGGAGTACCGTCAGTTTCTCGGCCCGCTTTGGAGACTGGCGCTTTTCATGGTCTTAC
 ATCCTGGGCTGGGTGGCCCTGCTCATGACCTTCTTTCAGGAATTTTCTACATGTGTGCCTACCGGATGC
 ATGAGTGCCGGCGCCTAGCCACCCACGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201478 representing NM_177693
 Red=Cloning site Green=Tags(s)

MYSFMGGGLFCAWVGTILLVVATADHWMQYRLSGSFAHQGLWRYCLGNKCFLQTESIAYWNATRAFMI
 LALCATSGIIMGVLAFAQQSTFTRLRPFSAIMFFASTLFVLLSLAIYTGVTVSFLGRRFGDWRFSWSY
 ILGWVALLMTFFAGIFYMCAYRMHECRRLATPR

TRTRPLE - GFP Tag - V

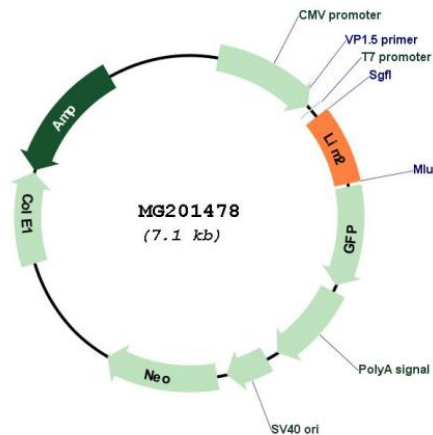
Restriction Sites: SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_177693

ORF Size: 519 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:	<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_177693.2</u> , <u>NP_808361.1</u>
RefSeq Size:	868 bp
RefSeq ORF:	522 bp
Locus ID:	233187
UniProt ID:	<u>P56563</u>
Cytogenetics:	7 28.25 cM
Gene Summary:	Present in the thicker 16-17 nm junctions of mammalian lens fiber cells, where it may contribute to cell junctional organization. Acts as a receptor for calmodulin. May play an important role in both lens development and cataractogenesis.[UniProtKB/Swiss-Prot Function]