

## Product datasheet for **RG228111**

### LIM2 (NM\_001161748) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LIM2 (NM\_001161748) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** LIM2  
**Synonyms:** CTRCT19; MP17; MP19  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG228111 representing NM\_001161748  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTACAGCTTCATGGGTGGTGGCCTGTTCTGTGCCTGGGTGGGACCATCCTCCTGGTGGTGGCCATGG  
CAACAGACCACTGGATGCAGTACCGGCTGTCAGGGTCTTCGCCACCAGGGCCTGTGGCGGTACTGCCT  
GGGCAACAAGTGTACCTGCAGACAGACAGCATCGCATACTGGAATGCCACCCGGGCCTTCATGATCCTG  
TCTGCCATATGCCCATCTCCGGCATCATATGGGCATCATGGCCTTCGCTCATCAGCCTACCTTCTCCC  
GCATCTCCGGCCCTTCTGTGCTGGCATCATGTTTTTTTCTCAACCCTTTTCGTCGTGTTGGCCTTGGC  
CATCTACACTGGAGTACCGTCAGCTTCTGGCCGCGCTTTGGGGACTGGCGCTTTCTCGTGGTCTAC  
ATCCTGGGCTGGGTGGCAGTGCTCATGACGTTCTTCGAGGGATTTTCTACATGTGCGCCTACCGGGTGC  
ATGAATGCCGGCGCCTGTCTACACCCCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG228111 representing NM\_001161748  
Red=Cloning site Green=Tags(s)

MYSFMGGGLFCAWVGTILLVVAMATDHWMQYRLSGSFAHQGLWRYCLGNKCYLQTDSIAYWNATRAFMI  
SALCAISGIIMGIMAFHQPTFSRISRPFSAGIMFFSSTLFFVVLALAIYTGVTVSFLGRRFGDWRFSWSY  
ILGWAVLMTFFAGIFYMCAYRVHECRRLSTPR

**TRTRPLE** - GFP Tag - V

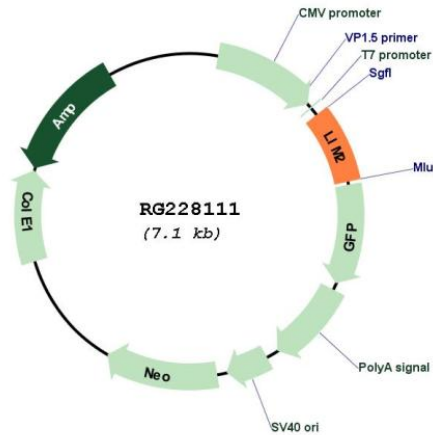
**Restriction Sites:** SgfI-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM\_001161748

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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001161748.2</a></u>
<b>RefSeq Size:</b>	875 bp
<b>RefSeq ORF:</b>	522 bp
<b>Locus ID:</b>	3982
<b>UniProt ID:</b>	<u><a href="#">P55344</a></u>
<b>Cytogenetics:</b>	19q13.41
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	This gene encodes an eye lens-specific protein found at the junctions of lens fiber cells, where it may contribute to cell junctional organization. It acts as a receptor for calmodulin, and may play an important role in both lens development and cataractogenesis. Mutations in this gene have been associated with cataract formation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]