

## Product datasheet for **RG209496**

### LMAN2L (NM\_030805) Human Tagged ORF Clone

#### Product data:

|                    |                         |
|--------------------|-------------------------|
| Product Type:      | Expression Plasmids     |
| Tag:               | TurboGFP                |
| Symbol:            | LMAN2L                  |
| Synonyms:          | MRT52; VIPL             |
| Mammalian Cell     | Neomycin                |
| Selection:         |                         |
| Vector:            | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL)  |

**ORF Nucleotide Sequence:** >RG209496 representing NM\_030805  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGC**C

ATGGCGCGGACTCTGGGACCCCTTGGGTCGTGGCAGCAGTGGCGGCGATGTTTGTGGCTCGGGATGGGT  
CCAGGATGTTACTCTTCTTTTGTGGGTCGTGGCAGGGGCCACAGCAAGTCGGGGCGGGTCAAAC  
GTTTCGAGTACTTGAACGGGAGCACTCGCTGTCTGAAGCCCTACCAGGGTGTGGGCACAGGCAGTTCTCTCA  
CTGTGGAATCTGATGGGCAATGCCATGGTGATGACCCAGTATATCCGCCTTACCCAGATATGCAAAGTA  
AACAGGGTGCCTTGTGGAACCGGGTGCCATGTTTCTGAGAGACTGGGAGTTGCAGGTGCACCTTCAAAAT  
CCATGGACAAGGAAAGAAGAATCTGCATGGGGATGGCTTGGCAATCTGGTACACAAAGGATCGGATGCAG  
CCAGGGCCTGTGTTTGAACATGGACAAATTTGTGGGCTGGGAGTATTTGTAGACACCTACCCCAATG  
AGGAGAAGCAGCAAGAGCGGGTATTCCTTACATCTCAGCCATGGTGAACAACGGCTCCCTCAGCTATGA  
TCATGAGCGGGATGGCGGCCCTACAGAGCTGGGAGGCTGCACAGCCATTGTCCGCAATCTTCATTACGAC  
ACCTTCCTGGTGATTGCTACGTCAAGAGGCATTTGACGATAATGATGGATATTGATGGCAAGCATGAGT  
GGAGGGACTGCATTGAAGTGCCCGGAGTCCGCCTGCCCGCGGCTACTACTTCGGCACCTCCTCCATCAC  
TGGGGATCTCTCAGATAATCATGATGTCATTTCTTGAAGTTGTTTGAAGTACAGTGGAGAGAACCCCA  
GAAGAGGAAAAGTCCATCGAGATGTGTTCTTGCCTCAGTGGACAATGAAGCTGCCTGAGATGACAG  
CTCCACTGCCGCCCTGAGTGGCCTGGCCCTCTTCTCATCGTCTTTTCTCCCTGGTGTCTGTATT  
TGCCATAGTCATTGGTATCATACTCTACAACAATGGCAGGAACAGAGCCGAAAGCGCTTCTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



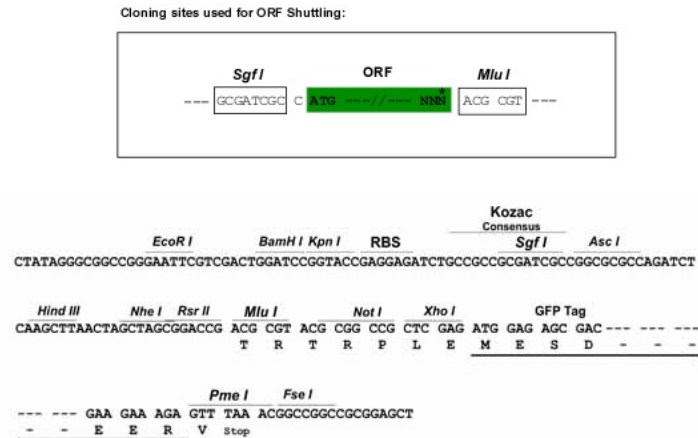
**Protein Sequence:** >RG209496 representing NM\_030805  
 Red=Cloning site Green=Tags(s)

MAATLGPLGSWQQWRRCLSARDGSRMLLLLLLLGSGQGPQQVGAGQTFEYLKREHSLSKPYQGVGTGSSS  
 LWNLMGNAMVMTQYIRLTPDMQSKQGALWNRVPCFLRDWELQVHFKEHGQKKNLHGDGLAIWYTKDRMQ  
 PGPVFGNMDKFVGLGVFVDTYPNEEKQQERVFPYISAMVNNGLSYDHERDGRPTELGGCTAIVRNLYD  
 TFLVIRYVKRHLTIMMDIDGKHEWRDCIEVPGVRLPRGYFGTSSITGDLSDNHDVISLKL FELTVERTP  
 EEEKLHRDVF LPSVDNMKLPENTAPLPPLSGLALFLIVFFSLVFSVFAIVIGIILYNKWQEQSRKRFY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_030805

**ORF Size:** 1044 bp

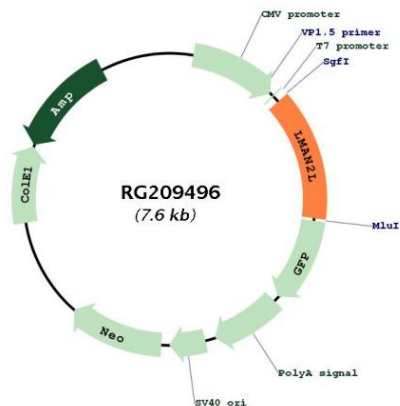
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq:</b>                | <u><a href="#">NM_030805.4</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq Size:</b>           | 2416 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>RefSeq ORF:</b>            | 1047 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Locus ID:</b>              | 81562                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID:</b>            | <u><a href="#">Q9H0V9</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Cytogenetics:</b>          | 2q11.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Domains:</b>               | Lectin_leg-like                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Summary:</b>          | <p>This gene encodes a protein belonging to the L-type lectin group of type 1 membrane proteins, which function in the mammalian early secretory pathway. These proteins contain luminal carbohydrate recognition domains, which display homology to leguminous lectins. Unlike other proteins of the group, which cycle in the early secretory pathway and are predominantly associated with post endoplasmic reticulum membranes, the protein encoded by this gene is a non-cycling resident protein of the ER, where it functions as a cargo receptor for glycoproteins. It is proposed to regulate exchange of folded proteins for transport to the Golgi and exchange of misfolded glycoproteins for transport to the ubiquitin-proteasome pathway. [provided by RefSeq, Apr 2016]</p> |

## Product images:



Circular map for RG209496