

Product datasheet for **RG210124**

LIM2 (NM_030657) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIM2 (NM_030657) 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:	>RG210124 representing NM_030657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACAGCTTCATGGGTGGTGGCCTGTTCTGTGCCTGGGTGGGACCATCCTCCTGGTGGTGGCCATGG
CAACAGACCACTGGATGCAGTACCGGCTGTGAGGGTCTTCGCCCACCAGGGCCTGTGGCGGTACTGCCT
GGGCAACAAGTGCTACCTGCAGACAGACAGCATCGGTGAGCCCCCGGCCAGGGTCCAGGCCGCGCCTGG
GGAAAGAGCAGGGCGGACCTCGGGGCCAAGGACACCTGTATTCCAGATGGAGAACTCTGCGGCTCAAAG
AGGGAAAGGGAGCAACCAAGCATACTGGAATGCCACCCGGGCTTCATGATCCTGTCTGCCCTATGCGC
CATCTCCGGCATCATCATGGGCATCATGGCCTTCGCTCATCAGCCTACCTTCTCCCGCATCTCCCGGCC
TTCTCTGTGGCATCATGTTTTTCTCAACCTTTTCGTCGTGTTGGCCTTGCCATCTACACTGGAG
TCACCGTCAGCTTCTGGGCCGCGCTTTGGGACTGGCGCTTTCTGGTCTACATCCTGGGCTGGGT
GGCAGTGCTCATGACGTTCTTCGAGGGATTTTACATGTGCGCCTACCGGGTGCATGAATGCCGGCGC
CTGTCTACACCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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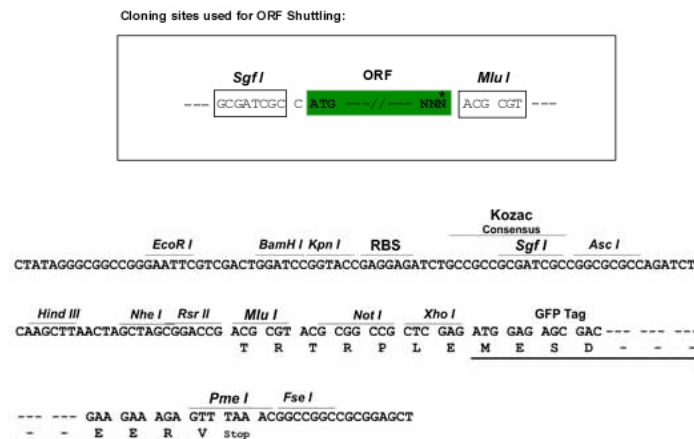
Protein Sequence: >RG210124 representing NM_030657
 Red=Cloning site Green=Tags(s)

MYSFMGGGLFCWVGTILLVVAMATDHWMQYRLSGSFAHQGLWRYCLGNKCYLQTDSIGEPGQGPRAW
 GKSRADLGAQGHLYSRWRTLRLKEGKGATQAYWNATRAFMILSALCAISGIIMGIMAFHQPTFSRISRP
 FSAGIMFFSSTLFVVLALAIYTGVTVSFLGRRFGDWRFWSYILGWVAVLMTFFAGIFYMCAYRVHECRR
 LSTPR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030657

ORF Size: 645 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_030657.4](#)

RefSeq Size: 970 bp

RefSeq ORF: 648 bp

Locus ID: 3982

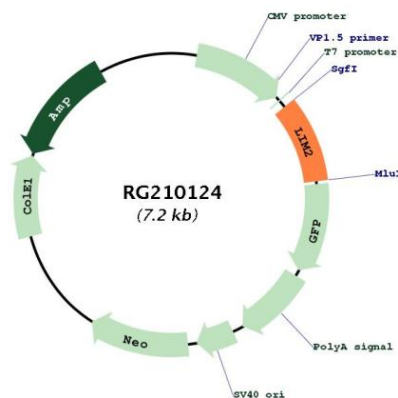
UniProt ID: [P55344](#)

Cytogenetics: 19q13.41

Protein Families: Druggable Genome, Transmembrane

Gene Summary: 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]

Product images:



Circular map for RG210124