

Product datasheet for **RG221099**

LIMCH1 (NM_014988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIMCH1 (NM_014988) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LIMCH1
Synonyms:	LIMCH1A; LMO7B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221099 representing NM_014988 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTGTCCCGCTCTCGGTCTGGAAGCTCTTCAGCCCTGCAGCCGAGCCGCCCCCGAGCCCGCT
TCTCCGAGGCGCAGAAGTGGATTGAGCAAGTAAGTGCAGAAAGTTTGGTGATAAAGATTTTCGGACAGG
TTTAGAAAATGGAATCCTCCTCTGCGAGTTGCTGAATGCTATAAAGCCAGGACTTGTTAAAAAGATCAAT
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TGATTATAGTAGGAAGCTGAAAAATGTATTAGTTACCATTACTGGCTGGGAAAAGCAGCAACAGCTGC
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CAGCGACTCCCTCTCCTCCTCGCCACGGCAGAGATGATTCTTCGACAGCCTGGATTCTTTGGCTCT
CGCTCTCGGCAGACGCCTTACCAGATGTAGTCTCAGGGGAAGCAGCGATGGGAGAGGAAGCGACTCTG
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 GATGCAAGTGGGACGGATGTTAGGATTCGAAATGGTCTCCTGAACTGTAATGATTGCTACATGCGAT
 CCAGAAGTGCCGGGCAGCTACAACATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221099 representing NM_014988
 Red=Cloning site Green=Tags(s)

MACPALGLEALQPLQPEPPPEPAFSEAQKWIEQVTGRSFGDKDFRTGLENGILLCELLNAIKPGLVKKIN
 RLPTPIAGLDNIILFLRGCKELGLKESQLFDPSDLQDTSNRVTVKSLDYSRKLKNVLVTIYWLGAANSC
 TSYSGTTLNLKEFEGLLAQMRKDDIEISPKRSIRDSGYIDCWDSERSDSLSPRRHGRDDSFDSLDSFGS
 RSRQTPSPDVVLRGSSDGRGSDSEDLPHRKLDPVKKDDMSARRTSHGEPKSAVFPNQYLPNKSQNTAYV
 PAMPLRKKKAEREERYKSWSTATSPLGGERPFRYPRTVPVSDDAESTSMFDMRCEEEAAVQPHSRARQEQL
 QLINNQLREEDDKWQDDLARWKSRRRSVSQDLIKKEEERKKMEKLLAGEDGTERRKSIKTYREIVQEKE
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 QQSLPPPKFTATVETIARASVLDTSMSAGSGSPSKTVTPKAVPMLTPKPYSQPKNSQDVLKTFKVDGKV
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 VSKGVHEDHQLDTEAGAPHCGTNPQLAQDPSQNQQTSNPHTSSEDEVKPKTLPDKSINHQIESPSERRKK
 SPREHFQAGPFPSPSPPTPPGQSPNRSISGKLLCSSCGLPLGKGAAMI IETLNLYFHIQCFRCGICKGQLG
 DAVSGTDVIRNGLLNCNDCYMRSSRSAGQPTTL

TRTRPLE - GFP Tag - V

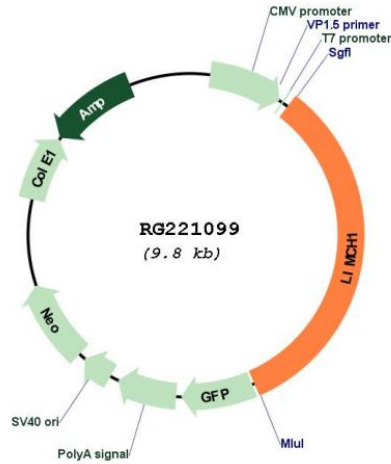
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_014988

ORF Size: 3249 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_014988.1</u> , <u>NP_055803.1</u>
RefSeq Size:	5113 bp
RefSeq ORF:	3252 bp
Locus ID:	22998
UniProt ID:	<u>Q9UPQ0</u>
Cytogenetics:	4p13
Gene Summary:	Actin stress fibers-associated protein that activates non-muscle myosin IIa. Activates the non-muscle myosin IIa complex by promoting the phosphorylation of its regulatory subunit MRLC/MYL9. Through the activation of non-muscle myosin IIa, positively regulates actin stress fibers assembly and stabilizes focal adhesions. It therefore negatively regulates cell spreading and cell migration.[UniProtKB/Swiss-Prot Function]