

Product datasheet for RC226313

LIMCH1 (NM_001112717) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LIMCH1 (NM_001112717) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LIMCH1
Synonyms:	LIMCH1A; LMO7B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226313 representing NM_001112717 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTGTCCTCGCTCTCGGTCTGGAAGCTCTTCAGCCCTGCAGCCCGAGCCGCCCCCGAGCCCGCT
TCTCCGAGGCGCAGAAGTGGATTGAGCAAGTAAGTGGCAGAAATTTGGTGATAAAGATTTTCGGACAGG
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TGATTATAGTAGGAAGCTGAAAAATGTATTAGTTACCATTTACTGGCTGGGAAAAGCAGCAAACAGCTGC
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CTGATGACATTGAAAGTCCTAACGCAGTATCCGAGACAGTGGCTACATCGACTGCTGGGATTCGAGCG
CAGCGACTCCCTCTCCTCCTCGCCACGGCAGAGATGATTCCTCGACAGCCTGGATTCCTTTGGCTCT
CGCTCTCGGCAGACGCCCTCACCAGATGTAGTCCTCAGGGGAAGCAGCGATGGGAGAGGAAGCGACTCG
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226313 representing NM_001112717

Red=Cloning site Green=Tags(s)

MACPALGLEALQPLQPEPPPEPAFSEAQKWIEQVTGRSFGDKDFRTGLENGILLCELLNAIKPGLVKKIN
 RLPTPIAGLDNIIILFRGCKELGLKESQLFDPSDLQDTSNRVTVKSLDYSRKLKNVLVTIYWLGAANSC
 TSYSGTTLNLKEFEGLLAQMRKTDDDIESPKRSIRDSGYIDCWDSESRDLSLSPRRHGRDSDSFDLSFGS
 RSRQTPSPDVVLRGSSDGRGSDSESDLPHRKLDPVKKDDMSARRTSHGEPKSAVPFNQYLPNKSNTAYV
 PAPLRKKAEREEYRKSSTATSPLGGERPFRYPRTVPVSDAESTSMFDMRCEEEAAVQPHSRARQEQL
 QLINNQLREEDDKWQDDLARWKSRRRSVSQDLIKKEEERKKMEKLLAGEDGTSERRKSIKTYREIVQEKE
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 MSGKVELVLSQKVVKPKSPEPEATLTFPFLDKMPEANQLHLPLNLSQVDSPEKSPVMTPOKFWAWDP
 EEERRRQEKWQEQERLLQERYQKEQDKLKEEWEKAQKEVEEERRRYEEERKIIEDTVVPFTVSSSSAD
 QLSTSSMTEGSGTMNKIDLGNQCDEKQDRRWKSFQGDDSDLLLKTRESDRLEEKGSLTEGALAHSGNP
 VSKGVHEDHQLDTEAGAPHCCTNPQLAQDPSQNTSNPHTHSSDVKPKTLPLDKSINHQIESPSERRKS
 ISGKLCSSCGLPLGKAAMI IETLNL YFHIQCFRCGICKQLGDAVSGTDVIRIRNGLLNCNDCYMRSR
 AGQPTTL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

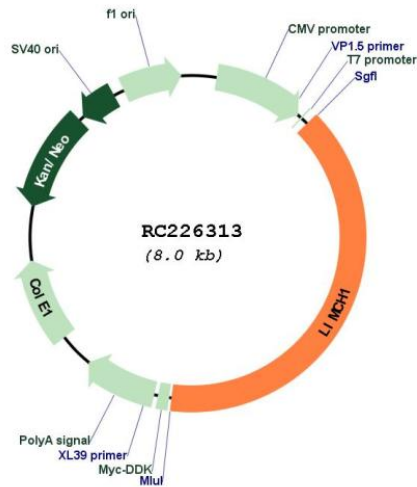
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001112717

ORF Size: 3171 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_001112717.4</u>
RefSeq ORF:	3174 bp
Locus ID:	22998
UniProt ID:	<u>Q9UPQ0</u>
Cytogenetics:	4p13
MW:	118.9 kDa
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]