

Product datasheet for **RG226238**

LIMCH1 (NM_001112720) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | LIMCH1 (NM_001112720) 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) |



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ORF Nucleotide Sequence:

>RG226238 representing NM_001112720
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATTCGAAAGACAAGTCAAGGACTGATGACATTGAAAGTCTAAACGCAGTATCCGAGACAGTG
 GCTACATCGACTGCTGGATTCCGAGCGCAGCGACTCCCTCTCTCTCTCGCCACGGCAGAGATGATTC
 CTTGACAGCCTGGATTCTTTGGCTCTCGCTCTCGGACAGCGCTTACCAGATGTAGTCTCAGGGGA
 AGCAGCGATGGGAGAGGAAGCGACTCTGAATCCGACTTGCCTCATCGAAAGCTGCCAGATGTGAAGAAGG
 ATGACATGTCTGCACGGCGGACTTCCATGGTGAAGCCGAAATCAGCAGTGCCTTTAACCAGTACCTCCC
 GAACAAAAGCAATCAGACGGCCTACGTCCCGCGCCTCTGAGAAAAGAAAAGCAGAGAGAGAGGAATAC
 CGAAGAGCTGGAGTACCGCCACCTCCCGCTGGGTGGGAGAGGCCCTTCAAGGACACCAGCATGTTTG
 ACATGCGGTGTGAGGAGGAGGCCGCGGTGCAGCCGCACAGAGGCCCGCCAGGAGCAGTGCAGCTGAT
 AAATAACCAGCTGAGGGAAGAGGACGACAAATGGCAAGATGACCTGGCTCGTTGGAAGAGTCGTAGAAGA
 AGTGTTCCTCAGGACTTAATCAAGAAAAGAGGAAGAAAAGGAAAAAATGGAGAAGTACTGGCTGGAGAAG
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 ACCAAATCCCAGATGTTTGAAGGTGTGGCCAGAGTGCACGGTCTCCACTGGAGCTGAAACAAGACAACG
 GTAGCATCGAGATCAACATAAAGAAGCCAACTCTGTTCCCAAGAGCTCGCAGCAACCACTGAGAAAAAC
 GGAACCGAATAGTCAAGAGGACAAGAATGATGGTGGAAAATCAAGAAAAGGGAATATAGAATTCCTCA
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 CCAGCCCCAGCTGAAGAATGATGTGTCGAAGAAAAAGACCAGAAGAAACCAGAAAATGAAATGAGTGG
 AAAGGTGGAGTTGGTGTGTACAAAAGGTGGTAAAGCCAAAATCTCCAGAACCCGAAGCAACGCTGACA
 TTTCCATTTCTGACAAAATGCCTGAAGCCAACCACTACATTTGCCAAATCTCAATTCGAAGTGGATT
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 CAGGATCCATCCCAGAATCAGCAGACATCAAATCCAACGCACAGTTCAGAAGATGTGAAGCCAAAAACCC
 TCCCGCTGGATAAAAGCATTAAACATCAGATCGAGTCTCCAGTGAAGGCGGAAGTCTATAAGTGGAAA
 GAAGCTGTGCTTCTGTGGGCTTCTTTGGTAAAGGAGCTGCAATGATCATCGAGACCTCAATCTC
 TATTTTACATCCAGTGTTCAGGTGTGGAATTTGTAAGGCCAGCTGGAGATGCAGTGAAGTGGGACGG
 ATGTTAGGATTCGAAATGGTCTCCTGAAGTGAATGATTGCTACATGCGATCCAGAAGTCCGGGCGCAGCC
 TACAACATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >RG226238 representing NM_001112720
 Red=Cloning site Green=Tags(s)

MDSERQVKDTDDIESPKRSIRD SGYIDCWSDSERSDSLSPPRHGRDSSFDSLDSFGSRSRQTPSPDVVLRG
 SSDGRGSDSESDLPHRKL PDVKKDDMSARRTSHGEPKSAVPFNQYLPNKSNOTAYVPAPLRKKKAEREEY
 RKSWSSTATSPLGGERPFRSTSMFDMRCEEEAAVQPHSRARQEQLQLINNQLREEDDKWQDDLARWKSRRR
 SVSQDLIKKEEERKKMEKLLAGEDGTERRRKS IKTYREIVQEKERRERELHEAYKNARSQEEAEGILQQY
 IERFTI SEAVLERLEMPKILERSHSTEPNLSSFLNDPNPMKYLRQQLPPPKFTATVETIARASVLDTS
 MSAGSGSPSKTVTPKAVPMLTPKPYSQPKNSQDVLKTFKVDGKVS VNGETVHREEEKERECPVAPAHS
 LTKSQMFEGVARVHGSPLELKQDNGSIEINIKKPNSVPQELAAATTEKTEPN SQEDKNDGGKSRKGNIELAS
 SEPQHFTTTVTRCSPTVAFVEFPSPQLKNDVSEEKQKPKPENEMSGKVELVLSQKVVKPKSPEPEATLT
 FPFLDKMPEANQLHL PNLNSQVDSPSSEKSPVMPFPKFWAWDPEEERRRQEKWQQEQERLLQERYQKEQD
 KLKEEWEKAQKEVEEEERRYYEEERKIIEDTVVPFTVSSSSADQLSTSSSMTEGSGTMNKIDLGNCQDEK
 QDRRWKKSFGQDSDLLK TRESDRLEEKGSLTEGALAHSGNPVSKGVHEDHQLDTEAGAPHC GTPNPLA
 QDPSQNQQTSNPTHSSDEVKPKTLPDKSINHQIESPERRRKSISGK KLCSSCGLPLGKGAMI IETLNL
 YFHIQCFRCGICKQLGDAVSGTDVIRINGLLNCNDCYMR SR SAGQPTTL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

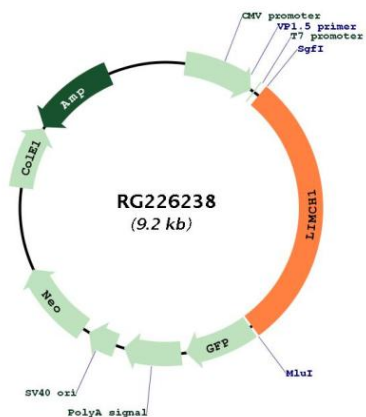
Cloning Scheme:

Cloning sites used for ORF Shuttling:



| | |
|-------------------------------|---|
| ACCN: | NM_001112720 |
| ORF Size: | 2670 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: | NM_001112720.3 |
| RefSeq Size: | 5722 bp |
| RefSeq ORF: | 2673 bp |
| Locus ID: | 22998 |
| UniProt ID: | Q9UPQ0 |
| 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] |

Product images:



Circular map for RG226238