

## Product datasheet for **SC319002**

### LIMCH1 (NM\_001112719) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LIMCH1 (NM_001112719) Human Untagged Clone
Tag:	Tag Free
Symbol:	LIMCH1
Synonyms:	LIMCH1A; LMO7B
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_00112719, the custom clone sequence may differ by one or more nucleotides

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ATGGATTCCGAAAAGACAAGTCAAGGACTGATGACATTGAAAGTCTAAACGCAGTATC
CGAGACAGTGGCTACATCGACTGCTGGGATCCGAGCGCAGCGACTCCCTCTCTCCTCT
CGCCACGGCAGAGATGATTCCTTCGACAGCCTGGATTCTTTGGCTCTCGCTCTCGGCAG
ACGCCTTACCAGATGTAGTCTCAGGGGAAGCAGCGATGGGAGAGGAAGCGACTGTGAA
TCCGACTTGCCTCATCGGAAGCTGCCAGATGTGAAGAAGGATGACATGTCTGCACGGCGG
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AATCAGACGGCCTACGTCCCGCCTCTGAGAAAAGAAGAAAGCAGAGAGAGAGGAATAC
CGCAAGAGCTGGAGTACCGCCACCTCCCGCTGGGTGGGAGAGGCCCTTCAGATACGGT
CCGAGAACTCCTGTGTCTGATGACGCAGAGAGCACCAGCATGTTTGACATGCGGTGTGAG
GAGGAGGCCGGTGCAGCCGCACAGCAGGGCCCGCCAGGAGCAGCTGCAGCTGATAAAT
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GCTGTTCTCGAACGCTTGGAGATGCCAAAAATTCTGAAAAGAAGCCATTCAACAGAGCCA
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CCTCCACCCAAATCACTGCCACTGTTGAAACCACCATGCTCGTGCCAGTGTCTGGAT
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ATGCTGACACCCAAAGCCTTACTCCAGCCAAAAATTTCAAGATGTTCTGAAGACCTTT
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GTGGCCAGAGTGACGGGTCTCCACTGGAGCTGAAACAAGACAACGGTAGCATCGAGATC
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CAGGACAAGCTGAAAAGAAGTGGGAAAAGGCCAAAAGGAGGTGGAAGAGGAAGAACGC
AGATACTATGAGGAGGAGCGTAAGATAATTGAAGACACTGTGGTTCATTTACTGTTTCT
TCAAGTCCGCTGACCAGCTGTCTACCTTCTCCATGACTGAAGGCAGTGGGACAATG
AATAAGATAGACTGGGAACTGTCAAGATGAAAAACAAGACAGAAGATGGAAGAAATCA
TTCCAGGAGATGACAGTGACTTATTGCTGAAGACTAGGGAAGTGTGACTGGAGGAG
AAGGGCAGCCTAACTGAAGGGCCTTGGCTCATTCTGGGAACCCTGTATCAAAGGAGTC
CATGAAGACCATCAGCTGGATACCGAGGCTGGGGCCCCACTGTGGAACAAACCCACAG
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AAAGGAGCTGCAATGATCATCGAGACCCTCAATCTCTATTTTACATCCAGTGTTCAGG
TGTGGAATTTGTAAGGCCAGCTTGGAGATGCAGTGAGTGGGACGGATGTTAGGATTCGA
AATGGTCTCTGAACTGTAATGATTGCTACATGCGATCCAGAAGTGCCGGGCAGCCTACA
ACATTG

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**Restriction Sites:** Please inquire  
**ACCN:** NM\_00112719

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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>RefSeq:</b>	<u>NM_001112719.1, NP_001106190.1</u>
<b>RefSeq Size:</b>	5758 bp
<b>RefSeq ORF:</b>	2709 bp
<b>Locus ID:</b>	22998
<b>UniProt ID:</b>	<u>Q9UPQ0</u>
<b>Cytogenetics:</b>	4p13
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and coding region and uses an alternate in-frame splice site compared to variant 1. The resulting isoform (d) has a shorter and distinct N-terminus compared to isoform a.</p>