

Product datasheet for **MC229141**

Limch1 (NM_001256122) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Limch1 (NM_001256122) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Limch1
Synonyms:	3732412D22Rik; mKIAA1102
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229141 representing NM_001256122
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCCTGAAAGACAGGAGACTGACGACATTGATAGCCGAAGCGCAGCATCCGAGACAGTGGCTACA
 TCGACTGCTGGGACTCTGAACGCAGCGACTCCCTCTCCTCCTCGCCACGGACGGGATGACTCCTTTGA
 CAGCCTGGATTCTTTGGCTCCCCTCCAGGCAGACACCTTCGCCAGATGTAGTTCTCAGGGGAAGCAGT
 GATGGAAGAGGAAGCGATTCTGAATCAGACTTGCCGCACCGGAAGTTGCCAGATGTGAAGAAAGATGATA
 TGTCCGCACGAAGGACTTCTCATGGTGAGCCGAAATCAGCAGTGCCTTTAAACCAGTACCTCCGAACAA
 AAGCAACCAGACGGCCTACGTCGCCGGCCTCTGAGAAAGAAGAGCGGAGCGGGAGGAATTCCAGGAAG
 AGTTGGAGCACCGCCACCTCCCCCTGGTGGGAAAGGCCCTTCAGATACGGTCCAGAACTCCTGTGT
 CAGATGACGCAGAGACGAGTATGTTTGACATGCGGTGTGAGGAGGAGGCAGCGGTGCTGCCGCACAG
 CAGGGCCCGCCAGGAGCAGCTGCAGCTGATAAATAACCAGCTGAGGAAGAGGACGACAAATGGCAAGAT
 GACCTGGCTCGCTGGAAGAGCCGGAGAAGAAGCGCTTCTCAGGACTTGATCAAGAAAGAGGAAGAAAGGA
 AAAAAATGGAGAAGCTGATGTCTGGGGAAGATGGGACAAGTGAGCGGAGGAAAAGCATCAAACTTACAG
 AGAAATCGTCCAAGAAAAGAGCGGAGAGAGAGGGAATTCATGAGGCGTACAAGAACGCAAGTCCGAG
 GAGGAGCCGAGGGGATCCTCCAGCAGTACATCGAGAGTTCCACATCAGTGAGGCTGTCTCGAACGCT
 TGGAGATGCCAAAAATCCTGAAAGAAGCCATTCAACAGAGCCAAACGTGTCTCTCTCCCAAACGACCC
 CAGCCCCATGAAGTACCTGCGGCAGCAGTCACTGCCCCACCCAAAGTTCACTGCCACGGTTGAGACCACC
 ATAGCTCGCACCAAGTGTCCAGAGAGCATTGCGTCAGCAGGCACCTGGGTCTCCAAGCAAAATCATCACT
 CAAACACAGTGCCTATGCTGACACCCAGCCTTACTCCAGCCAAAACTCTCAAGAGTTCTGAAGAC
 TTTTAAGGTAGATGGGAAGGTACAGCATGAATGGGGAATGGCCCTGGAGATGAGGAAGGAAGGAAAAA
 GAAGGCCCTGCAGCTGCAGCCCTGGCCCTTCTTAACCAAGTCCAGATGTTTGAAGGTGTGGCCACGG
 TGCACGACTCTCTGTGCAGGTGAAACAAGGCAGCAACAGCATCGAGATCAACATCAAGAAGCCAAATTC
 TGCTCCCAGGAACTGACAGCAGCCTCTGAGGAAACTGAATCGAACGGCCAAGAGGATGAAGACGGTGAA
 GAAAGGCCAGGGACAGGGGATTTGGAGCCTGACTCGGCAGAACCCAGCACTTTACGACAACTGTGACTC
 GGTGCAGCCAAACAGTGGCCTTGGTGGAGTTTTCATCCAACCCGAGCTGAAGAATGAGGTGCCAGAACA
 AGGCCAGAAGAAGCCAGAAGATGAGATGAGTGGGAAGGTGGAGTTAGTGTGTACAGAAGTGGCAAAG
 CCAAAATCCCAGAGCCTGAAGCAACCCTGACGTTTCCATTTCTGCAGAAAATGCCTGAAACCAACCAAC
 TACATTTGCCAAATCCCAGTTCTCAAGCGGATTCTCAAGCAGTGAAGTCCCTGGGAGCACACCCTT
 TAAGTTCTGGGCATGGGACCCAGAAGAGGAGCGCCGGCGACAGGAGAAATGGCAGCAGGAGCAGGAACGT
 CTGCTGCAGGAGAGGTATCAGAAGGAGCAAGACAAGCTGAAGGAGGAGTGGGAAAAGGCCAGAAGGAGG
 TCGAAGAAGAAGAACGCAGATACTACGAGGAGGAGCGTAAGATAAATTGAAGACACGGTGGTTCCATTAC
 TATTTCTCAAGCTCTGCAGACCAACTGTCTACGTCTTGTCTGTAACCTGAAGGCAGCGGGACAAGGAAT
 AAGATGGACTTGGAAAACCTGCCAGACAAAGAAAACGAGAGAAGACAGAAGACGCCTTCCAGGAGAATG
 ACGGTGATTCAATGCTCAAACTAGAGAAGGTGGTCTGCCAGAGGAGCAGAGCCTAACTCCAAGTCCCTC
 GGCTAACCCCTGAAATCTCCGTGTCAAAGGAATCCATCAGGACCCGAGCTGGAGGCAGAGGCTGGGGCC
 CCACACTGTGGTACAAACCCACAGCCAGCTCAGGATCCACCTCGGAATCAACAGATACCAACCCACCAA
 CATCCACGTCCGAAGATGTGAAGCCAAAACTTGGCCCTGGAGAAAACCATCAATCATCAGATGGAGTC
 TCCGGGGAAAGGCGGAAGTCTATAAGCGGGAAGAACTGTGCTCCTCCTGCGGGCTCACTTTGGGTAAA
 GGTGCTGCGATGATCATCGAGACCCTGAATCTCTACTTTCACATTCAGTGTTCAGGTGCGGCATCTGTA
 AAGGACAGCTCGGAGATGCAGTAAGCGGGACAGACGTGAGGATTCGCAATGGTCTCTAAACTGTACCGA
 CTGCTACATGCGATCCAGAAGTGCCGGCCAGCCTACAACACTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001256122

Insert Size:	2706 bp
OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001256122.1</u> , <u>NP_001243051.1</u>
RefSeq Size:	5904 bp
RefSeq ORF:	2706 bp
Locus ID:	77569
UniProt ID:	<u>Q3UH68</u>
Cytogenetics:	5 C3.1
Gene Summary:	<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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>