

Product datasheet for MC223397

Limch1 (NM_001001980) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Limch1 (NM_001001980) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Limch1
Synonyms:	3732412D22Rik; mKIAA1102
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223397 representing NM_001001980 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCTTGCCCCGCTCTCGGTCTGGAAGTCTTCAACCCCTGCAGCCGAACCACCTCCGGAGCCTGCCT
TCGCCGAGGCACAGAAGTGGATCGAGCAAGTCACTGGTCGAAGTTTTGGTGACAAAGACTCCGGACAGG
ACTAGAAAATGGGATCCTCCTTTGCGAGTTGCTGAATGCTATAAAGCCAGGACTTGTTAAAAAGATCAAT
AGATTGCCTACCCCATTCGAGGATTGGACAATACCATCTTATTCTTGAGAGGCTGTAAGGAGCTTGGCC
TTAAAGAATCTCAACTCTTTGACCCGAGTGACCTCCAGGATACCTCCAACAGGGTCACTGTCAAGAACCT
CGATTATAGCAGGAAGCTGAAAAACGTGCTAGTGACCATTTACTGGCTGGGGAAAGCTGCAACAGCTGT
GCATCCTACGGTGAACACACTGAACCTGAAGGAGTTTGAAGGGCTGTTGGCTCAGATGCGAAAGGAGA
CTGACGACATTGATAGCCGAAGCGCAGCATCCGAGACAGTGGCTACATCGACTGCTGGGACTCTGAACG
CAGCGACTCCCTCTCCTCGCCACGGACGGGATGACTCCTTTGACAGCCTGGATTCTTTTGGCTCC
CGCTCCAGGCAGACACCTTCGCCAGATGTATTCTCAGGGGAAGCAGTGTGAAGAGGAAGCGATTCTG
AATCAGACTTGCCGCACCGAAGTTGCCAGATGTGAAGAAAGATGATATGTCCGCACGAAGGACTTCTCA
TGGTGAGCCGAAATCAGCAGTGCCTTTTAAACAGTACCTCCCGAACAAAAGCAACCAGACGGCCTACGTC
CCGGCCCTCTGAGAAAGAAGAAGCGGAGCGGGAGGAATTCAGGAAGAGTTGGAGCACCGCCACCTCCC
CCCTGGGTGGGGAAAGGCCCTTCAGATACGGTCCAGAACTCCTGTGTCAGATGACGAGAGAGCAGCAG
TATGTTTGACATGCGGTGTGAGGAGGAGGCAGCGGTGCTGCCGCACAGCAGGGCCCGCCAGGAGCAGCTG
CAGCTGATAAATAACAGCTGAGGGAAGAGGACGACAAATGGCAAGATGACCTGGCTCGCTGGAAGAGCC
GGAGAAGAAGCGCTTCTCAGGACTTGATCAAGAAAGAGGAAGAAAGGAAAAAATGGAGAAGCTGATGTC
TGGGGAAGATGGGACAAGTGAGCGGAGGAAAAGCATCAAACTTACAGAGAAATCGTCCAAGAAAAAGAG
CGGAGAGAGAGGGAACCTCATGAGGCGTACAAGAACGCAAGGTCGAGGAGGAGGCCGAGGGGATCTCC
AGCAGTACATCGAGAGGTTACCATCAGTGAGGCTGTCTCGAACGCTTGGAGATGCCAAAAATCCTGGA
AAGAAGCCATTCAACAGAGCCAAACGTGTCTCCTTCCAAACGACCCCGCCCATGAAGTACCTCGCG



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CAGCAGTCACTGCCCCACCCAAGTTCCTACTGCCACGGTTGAGACCACCATAGCTCGCACCAGTGTCCCAG
 AGAGCATTGCGTCAGCAGGCACTGGGTCTCCAAGCAAAATCATCACTCCAAACACAGTGCCTATGCTGAC
 ACCCAGGCCTTACTCCCAGCCAAAAAATCTCAAGAGGTTCTGAAGACTTTTAAGGTAGATGGGAAGGTC
 AGCATGAATGGGGAAATGGCCCCTGAGATGAGGAAGGAAAGGAAAAAGAAGGCCCTGCAGCTGCAGCCC
 CTGGCCCTTCCTTAACCAAGTCCCAGATGTTTGAAGGTGTGGCCACGGTGCACGACTCTCCTGTGCAGGT
 GAAACAAGGCAGCAACAGCATCGAGATCAACATCAAGAAGCCAAATTCGCTCCCAGAACTGACAGCA
 GCCTCTGAGGAACTGAATCGAACGGCCAAAGAGGATGAAGACGGTGAAGAAAGGCCAGGGACAGGGGATT
 TGGAGCCTGACTCGGCAGAACCCAGCACTTTACGACAACGTGACTCGGTGCAGCCAAACAGTGGCCTT
 GGTGGAGTTTTTCACCAACCCGACGCTGAAGAATGAGGTGCCAGAACAAGGCCAGAAGAAGCCAGAAGAT
 GAGATGAGTGGGAAGGTGGAGTTAGTGTGTGCACAGAAGGTGGCAAAGCCAAAAATCCCAGAGCCTGAAG
 CAACCCTGACGTTTCCATTTCTCGACAAAATGCCTGAAACCAACCAACTACATTTGCCAAATCCCAGTTC
 TCAAGCGGATTCTCAAGCAGTGAAGTCCCCTGGGAGCACACCCTTTAAGTTCGGGCATGGGACCCA
 GAAGAGGAGCGCCGGCAGAGGAAAATGGCAGCAGGAGCAGGAACGTCTGCTGCAGGAGAGGTATCAGA
 AGGAGCAAGACAAGCTGAAGGAGGAGTGGGAAAAGGCCAGAAGGAGGTGAAGAAAGAAGAACGCAGATA
 CTACGAGGAGGAGCGTAAGATAATTGAAGACACGGTGGTCCATTCACTATTTCTCAAGCTCTGCAGAC
 CAACTGTCTACGTCCTTGTCTGTAAGTGAAGGCAGCGGGACAAGGAATAAGATGGACTTGGAAAACCTGCC
 CAGACAAAAGAAAACGAGAGAAGACAGAAGACGCCTTTCCAGGAGAATGACGGTGATTCATTGCTCAAAC
 TAGAGAAGGTGGTCTGCCAGAGGAGCAGAGCCTAACTCCAAGTCCCTCGGCTAACCTGAAATCTCCGTG
 TCAAAAAGGAATCCATCAGGACCCGACGCTGGAGGCAGAGGCTGGGGCCCCACACTGTGGTACAAACCCAC
 AGCCAGCTCAGGATCCACCTCGGAATCAACAGATACCAAACCCACCAACATCCACGTGGGAAGATGTGAA
 GCCCAAAACCTTGGCCCTGGAGAAAACCATCAATCATCAGATGGAGTCTCCGGGGAAAGGCCGAAGTCT
 ATAAGCGGGAAGAAACTGTGCTCCTCCTGCGGGCTCACTTTGGGTAAGGTGCTGCGATGATCATCGAGA
 CCCTGAATCTCTACTTTACATTCAGTGTTCAGGTGCGGCATCTGTAAGGACAGCTCGGAGATGCAGT
 AAGCGGGACAGAGCTCAGGATTCGAATGGTCTCCTAAACTGTACCGACTGCTACATGCGATCCAGAAGT
 GCCGGCCAGCCTACAACACTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001001980
- Insert Size:** 3174 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).
- 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:**
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_001001980.2](#), [NP_001001980.2](#)

RefSeq Size: 6142 bp

RefSeq ORF: 3174 bp

Locus ID: 77569

UniProt ID: [Q3UH68](#)

Cytogenetics: 5 C3.1

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest 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.