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Product datasheet for SC307663

Leiomodin 3 (LMOD3) (NM_198271) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Leiomodin 3 (LMOD3) (NM_198271) Human Untagged Clone

Tag: Tag Free

Symbol: Leiomodin 3

Synonyms: NEM10

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_198271, the custom clone sequence may differ by one or more nucleotides

ATGTCAGAGCACAGCAGAAATTCAGATCAAGAAGAACTTCTCGATGAGGAGATTAATGAA
GATGAAATCTTGGCCAACTTGTCTGCTGAAGAACTGAAAGAACTGCAGTCGGAAATGGAA
GTCATGGCCCCTGACCCCAGCCTTCCCGTGGGAATGATTCAGAAAGATCAAACTGACAAG
CCACCGACAGGAAACTTCAATCATAAATCTCTTGTTGATTATATGTATTGGGAAAAGGCA
TCCAGGCGCATGCTGGAAGAGGAACGAGTTCCTGTCACCTTTGTGAAATCCGAGGAAAAG
ACTCAAGAAGAGCATGAAGAAATAGAAAAACGTAATAAAAATATGGCCCAGTATTTAAAA
GAAAAGCTCAATAATGAAATAGTTGCAAATAAAAGAGAATCAAAGGGCAGCAGCAATATC
CAAGAAACAGATGAAGAAGATGAAGAAGAAGAAGATGATGATGATGACGACGAAGGAGAA
GATGATGGTGAAGAGAGTGAAGAAACGAACAGAGAAGAGGAAGGCAAAGCAAAGGAACAA
ATTAGAAATTGTGAGAACAACTGCCAGCAGGTAACTGACAAAGCATTCAAAGAACAGAGA
GACAGACCAGAGGCCCAAGAACAAAGTGAGAAAAAAATATCGAAATTAGATCCTAAGAAG
TTAGCTCTAGACACCAGCTTTTTGAAGGTAAGTACAAGGCCTTCAGGAAACCAGACAGAC
CTGGATGGGAGCTTGAGGAGAGTTAGGAAAAATGATCCTGACATGAAGGAACTCAACCTG
AACAACATTGAAAACATCCCCAAAGAAATGTTACTGGACTTTGTCAATGCAATGAAGAAA
AACAAGCACATCAAAACATTCAGTTTAGCCAATGTGGGTGCAGATGAGAATGTAGCATTT
GCCTTGGCTAACATGTTGCGTGAAAATAGAAGCATCACCACTCTCAACATCGAGTCCAAT
TTCATCACAGGTAAAGGGATTGTGGCCATCATGAGGTGTCTCCAGTTTAATGAGACGCTA
ACTGAGCTTCGGTTTCACAATCAGAGGCACATGTTGGGTCACCATGCTGAAATGGAAATA
GCCAGGCTTTTGAAGGCAAACAACACTCTCCTGAAGATGGGCTACCATTTTGAGCTTCCG
GGTCCCAGAATGGTGGTCACTAATCTGCTCACCAGGAATCAGGATAAACAAAGGCAGAAA
CGACAGGAAGAGCAAAAACAGCAGCAACTCAAGGAACAGAAGAAGCTGATAGCCATGTTA
GAGAATGGGTTGGGGCTGCCCCCTGGGATGTGGGAGCTGTTGGGAGGACCCAAGCCAGAT
TCCAGAATGCAGGAATTCTTCCAGCCACCGCCACCTCGGCCTCCCAACCCCCAAAATGTC
CCCTTTAGTCAACGCAGTGAAATGATGAAAAAGCCATCGCAGGCCCCGAAGTACAGGACA
GACCCTGACTCCTTCCGGGTGGTGAAGCTGAAGAGAATCCAGCGCAAATCTCGGATGCCG
GAAGCCAGAGAACCACCCGAGAAAACCAACCTCAAAGATGTCATCAAAACGCTCAAGCCA
GTGCCGAGAAACAGGCCACCCCCATTGGTGGAAATCACTCCCAGAGATCAGCTGCTAAAC
GACATTCGTCACAGCAGTGTCGCCTATCTTAAACCTGTGCAACTGCCAAAAGAACTGGCG
TAA

View online »

Restriction Sites:	Please inquire
ACCN:	NM_198271
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:	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.
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_198271.2, NP_938012.2
RefSeq Size:	4067 bp
RefSeq ORF:	1683 bp
Locus ID:	56203
UniProt ID:	Q0VAK6
Cytogenetics:	3p14.1
Gene Summary:	The protein encoded by this gene is a member of the leiomodin family of proteins. This protein contains three actin-binding domains, a tropomyosin domain, a leucine-rich repeat domain, and a Wiskott-Aldrich syndrome protein homology 2 domain (WH2). Localization of this protein to the pointed ends of thin filaments has been observed, and there is evidence that this protein acts as a catalyst of actin nucleation, and is important to the organization of sarcomeric thin filaments in skeletal muscles. Mutations in this gene have been associated as one cause of Nemaline myopathy, as other genes have also been linked to this disorder. Nemaline myopathy is a disorder characterized by nonprogressive generalized muscle weakness and protein inclusions (nemaline bodies) in skeletal myofibers. Patients with mutations in this gene often present with a severe congenital form of the disorder. [provided by RefSeq, Jan 2015] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.