

Product datasheet for **SC216637**

Myosin light chain kinase (MYLK) (NM_053025) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Myosin light chain kinase (MYLK) (NM_053025) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	MYLK
Synonyms:	AAT7; KRP; MLCK; MLCK1; MLCK108; MLCK210; MMIHS; MMIHS1; MSTP083; MYLK1; smMLCK
ACCN:	NM_053025
Insert Size:	2000 bp



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Insert Sequence: >SC216637 3'UTR clone of NM_053025
 The sequence shown below is from the reference sequence of NM_053025. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAAGGGGAAGGGGAAGAGGAAGAAGAGTGAACAAAGCCAGAGAAAAGCAGTTTCTAAGTCATATTTAA
AGGACTATTTCTCTAAAACCTCAAAAAAAAAAAAAAAAAAACTCAAGATAGTAAAAGCACCTAGTGTGATAGA
TTATCGGTTAGGTCATTTGTGGTTGATTCTTCAGAAACAGCAGTTGATACCTAGCAGCGTTATTGATG
GGCATTAACTATGTTAGTTGGCACCTTAAGATACTAGTGCAGCTAGATTTTCATTTAGGGAAATCACCA
GTAACCTTGACTGACCAATTGATTTTAGAGAGAAAAGTAACCAAACCAATATTTATCTGGGCAAAGTCAT
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ACTCTCCATTTCTTTCCCTTCCACCTGCCAGTTTTGCTGACTCTCACTTGTGATGAGTGAAGCA
TTAAGGACATTATGCTTCTTCGATTCTGAAGACAGGTCCTGCTCATGGATGACTCTGGCTTCTTAGG
AAAATATTTTTCTTCAAATCAGTAGGAAATCTAAACTTATCCCTCTTTGCAGATGTCTAGCAGCTT
CAGACATTTGGTTAAGAACCATGGGAAAAAAAAAAATCCTTGCTAATGTGGTTTCCTTTGTAACCAGG
ATTCTATTTGTGCTGTTATAGAATACAGCTCTGAACGTGTGGTAAAGATTTTTGTGTTGAATATAG
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CTCAACTCTCCAAGAAGCTTGACCTACCTTATGGGTTCCATATTTTTCTTAAATGTGCATCAAT
CATGCCTTGCCCCAACCTTTAAATATATTCTTAGACCTGGTAAATGCACTCAGACTTGGCTCTTTAGG
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ACAAAGACCATAATTGATGATAGACCTAATACATTTCTCTGTGTGTGTGTAACATTCAAAATACTT
TTTTTTCTTTTCCACTGTTTGAAGGTGCAACAATTTAATTTTTTAAGGGACTTTTTAAGAGTTCCT
TAAGAACCAATTTAAAATTACTTCAGTGAATCCTACACAGTATCAACATTAGAATTTTGATATTAGTC
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TTGCTTTTAAAATAGTTACAATATTTTTATGATAGCCACAGTATTGCCACAGTTTATTATAATAAAGG
GTTTTTATTTGATTTAGCGCATTCAAAGCTTTTTCTATCACTTTTGTGTTGAGAAATATAACCTTTGTG
TGGTGTATGTTGTGTGTGTCATGTGTGGCGTATATGTGTGTTACAGGTTAATGCCTTCTTGAATTG
TGTTAATGTTCTCTTGGTTTATTATGCCATCAGAATGGTAAATGAGAACACTACAAGTGTAGTCAGCTC
ACAATTTTTAAATAAAGGATACCACAGTGCATGCTGTTTGTTCATCTTTGCAGACTTCTCTTTCTTTC
CATGCTACCAGTTGTAAGGACACAGCTATATCCTGGAAATGAAAAACAAACTGTGGTGCCTAGATG
TGAAGAAGTGGCTTATGTGGTTGTGTTTTGCTATGGAACAGAATGATTTAGGAAGTCTTGTGTTATAT
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_053025.4](#)

Summary:

This gene, a muscle member of the immunoglobulin gene superfamily, encodes myosin light chain kinase which is a calcium/calmodulin dependent enzyme. This kinase phosphorylates myosin regulatory light chains to facilitate myosin interaction with actin filaments to produce contractile activity. This gene encodes both smooth muscle and nonmuscle isoforms. In addition, using a separate promoter in an intron in the 3' region, it encodes telokin, a small protein identical in sequence to the C-terminus of myosin light chain kinase, that is independently expressed in smooth muscle and functions to stabilize unphosphorylated myosin filaments. A pseudogene is located on the p arm of chromosome 3. Four transcript variants that produce four isoforms of the calcium/calmodulin dependent enzyme have been identified as well as two transcripts that produce two isoforms of telokin. Additional variants have been identified but lack full length transcripts. [provided by RefSeq, Jul 2008]

Locus ID:

4638

MW:

77.2