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Product datasheet for SC216632

Myosin light chain kinase (MYLK) (NM_053032) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Myosin light chain kinase (MYLK) (NM_053032) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	MYLK
Synonyms:	AAT7; KRP; MLCK; MLCK1; MLCK108; MLCK210; MMIHS; MMIHS1; MSTP083; MYLK1; smMLCK
ACCN:	NM_053032
Insert Size:	2000 bp

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Insert Sequence:

>SC216632 3'UTR clone of NM_053032
The sequence shown below is from the reference sequence of NM_053032. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GAAGGGGAAGGGGAAGAGGAAGAAGAGTGAAACAAAGCCAGAGAAAAGCAGTTTCTAAGTCATATTAAA
AGGACTATTTCTCTAAAACTCAAAAAAAAAAAAAAAACTCAAGATAGTAAAAGCACCTAGTGTGATAGA
TTATCGGTTAGGTCATTTGTGGGTTGATTCTTCAGAAACAGCAGTTGATACCTAGCAGCGTTATTGATG
GGCATTAATCTATGTTAGTTGGCACCTTAAGATACTAGTGCAGCTAGATTTCATTTAGGGAAATCACCA
GTAACTTGACTGACCAATTGATTTTAGAGAGAAAGTAACCAAACCAAATATTTATCTGGGCAAAGTCAT
AAATTCTCCACTTGAATGCGCTCATGAAAAATAAGGCCAAAACAAGAGTTCTGGGCCACAGCTCAGCCC
AGAGGGTTCCTGGGGATGGGAGGCCTCTCTCTCCCCACCCCCTGACTCTAGAGAACTGGGTTTTCTCCC
AGTACTCCAGCAATTCATTTCTGAAAGCAGTTGAGCCACTTTATTCCAAAGTACACTGCAGATGTTCAA
ACTCTCCATTTCTCTTTCCCCTTCCACCTGCCAGTTTTGCTGACTCTCAACTTGTCATGAGTGTAAGCA
TTAAGGACATTATGCTTCTTCGATTCTGAAGACAGGTCCCTGCTCATGGATGACTCTGGCTTCCTTAGG
AAAATATTTTTCTTCCAAAATCAGTAGGAAATCTAAACTTATCCCCTCTTTGCAGATGTCTAGCAGCTT
CAGACATTTGGTTAAGAACCCATGGGAAAAAAAAAATCCTTGCTAATGTGGTTTCCTTTGTAAACCAGG
ATTCTTATTTGTGCTGTTATAGAATATCAGCTCTGAACGTGTGGTAAAGATTTTTGTGTTTGAATATAG
GAGAAATCAGTTTGCTGAAAAGTTAGTCTTAATTATCTATTGGCCACGATGAAACAGATTTCAACTGAT
AAAGAGCTGGAGAACTCCATGTACTTTGGAATCTCCTCCAAGATAGCCAGAGTTTAATACATCTTCATT
CTCAACACTCTCCAAAGAACTTGACCTACCTTATGGGTTCCATATTTTTCTTCTTAAATGTGCATCAAT
CATGCCTTGCCCCCAACCTTTAAATATATTCTTAGACCTGGTAAATGCACTCAGACTTGCGTCTTTAGG
AATTTTTAACTTTCTTTCACTACATTGGCACTTAAATTTTTTCTTTATAAAGCTTTTTGAAGGTCATAA
ACAAAGACCATAATTGATGATAGACCTAATACATTTCCTCTGTGTGTGTGTGTAACATTCCAAATACTT
TTTTTTTCTTTTCCACTGTTTGTAAGGTGCAACAATTTAATATTTTTAAGGGACTTTTTAAGAGTTCCT
TAAGAACCAATTTAAAATTACTTCAGTGCAATCCTACACAGTATCAACATTAGAATTTTGATATTAGTC
TTATGTTATCTTCCATTCTATTTTTATCTGCTTTTTGCTGCTAGTTTCAAACTGCCAGTATTTTTCCTT
TTGCTTTTAAAATAGTTACAATATTTTTCATGATAGCCACAGTATTGCCACAGTTTATTATAATAAAGG
GTTTTTATTTGATTTAGCGCATTCAAAGCTTTTTTCTATCACTTTTGTGTTCAGAATATAACCTTTGTG
TGCGTGTATGTTGTGTGTGTGCATGTGTGGCGTATATGTGTGTTACAGGTTAATGCCTTCTTGGAATTG
TGTTAATGTTCTCTTGGTTTATTATGCCATCAGAATGGTAAATGAGAACACTACAACTGTAGTCAGCTC
ACAATTTTTAAATAAAGGATACCACAGTGCATGCTGTTTGTTCAATCTTTGCAGACTTCTCTTTCTTTC
CATGCTACCAGTTGTAAAGGACACAGCTATATCCTGGAAATGAAAAACAAACACTGTGGTGCCTAGATG
TGAAGAACTGGCTTATGTGGTTGTGTTTTGCTATGGAACAGAATGATTTAGGAAGTTCTTGTTTATAT
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

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_053032.4

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