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Product datasheet for RC202750

myosin light chain 1 (MYL1) (NM_079422) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	myosin light chain 1 (MYL1) (NM_079422) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	myosin light chain 1
Synonyms:	MLC1F; MLC3F; MYOFTA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC202750 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGTCCTTCAGTGCTGACCAGATTGCTGAATTCAAGGAGGCATTTCTCCTGTTTGACAGAACAGGTGATT CCAAGATCACCTTAAGCCAGGTCGGTGATGTCCTTCGAGCTCTGGGCACAAATCCCACCAATGCAGAGGT CAGGAAAGTTCTGGGAAACCCCAGCAATGAAGAGGCTGAATGCCAAGAAAATTGAGTTTGAACAATTTCTG CCTATGATGCAAGCCATTTCCAACAACAAGGACCAGGCCACCTATGAAGACTTTGTTGAGGGTCTGCGTG TCTTTGACAAGGAAGGCAATGGCACAGTCATGGGTGCTGAACTCCGCCATGTTCTAGCCACCCTGGGTGA AAAGATGAAAGAGGAAAGTGGAAGCCCTGATGGCAGGTCAAGAAGACTCCAATGGCTGCATCAACTAC GAAGCTTTTGTCAAGCACATCATGTCTATC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC202750 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MSFSADQIAEFKEAFLLFDRTGDSKITLSQVGDVLRALGTNPTNAEVRKVLGNPSNEELNAKKIEFEQFL PMMQAISNNKDQATYEDFVEGLRVFDKEGNGTVMGAELRHVLATLGEKMKEEEVEALMAGQEDSNGCINY EAFVKHIMSI
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6414_g05.zip



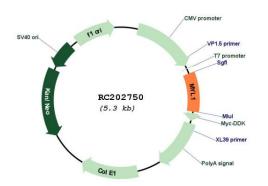
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CTATAGGGGGG CTATAGGGGGG CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG ORF CTATAGGGGGG COMPONENTS CTATAGGGGGG COMPONENTS COMPONENTS Components: Componen	Cloning sites used for ORF Shuttling: Sgf1 ORF Mlu I GCGATCGC C ATG ===- Consensus EcoR1 BamH1 Kpn 1 RBS Sgf1
ACCN: NM_07942 ORF Size: 450 bp OTI Disclaimer: The molecoreference naturally of clone is su variants is OTI Annotation: This clone varies dep Components: The ORF containing Reconstitution Method: 1. Centrifu 2. Carefull 3. Close th 4. Briefly variants both 5. Store th	Consensus
ACCN: NM_07942 ORF Size: 450 bp OTI Disclaimer: The molect reference naturally of clone is su variants is OTI Annotation: This clone varies dep Components: The ORF of containing Reconstitution Method: 1. Centrifu 3. Close th 4. Briefly v at the both 5. Store th	CEGCCEGEGAATTCETCEGACTEGATCCEGEGAGAGATCTECCECCECEGATCEC C ATE
ACCN: NM_07942 ORF Size: 450 bp OTI Disclaimer: The moleor reference naturally of clone is su variants is OTI Annotation: This clone varies dep Components: The ORF of containing Reconstitution Method: 1. Centrifu 2. Carefull 3. Close th 4. Briefly v at the both 5. Store th	EcoR V Flag.Tag Pmei Fsei SCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGGCC A A N D I L D Y K D D D K V stop
ORF Size:450 bpOTI Disclaimer:The molect reference naturally of clone is su variants isOTI Annotation:This clone varies depComponents:The ORF of containingReconstitution Method:1. Centrifu 2. Carefull 3. Close th 4. Briefly w at the both 5. Store th	don before the Stop codon of the ORF
OTI Disclaimer: The molect reference naturally of clone is su variants is OTI Annotation: This clone varies dep Components: The ORF of containing Reconstitution Method: 1. Centrifu 2. Carefull 3. Close th 4. Briefly v at the both 5. Store th)422
reference naturally of clone is su variants is OTI Annotation: This clone varies dep Components: The ORF of containing Reconstitution Method: 1. Centrifu 2. Carefull 3. Close th 4. Briefly v at the both 5. Store th	
varies dep Components: The ORF c containing Reconstitution Method: 1. Centrifu 2. Carefull 3. Close th 4. Briefly v at the both 5. Store th	lecular sequence of this clone aligns with the gene accession number as a point of ce only. However, individual transcript sequences of the same gene can differ through y occurring variations (e.g. polymorphisms), each with its own valid existence. This substantially in agreement with the reference, but a complete review of all prevailing s is recommended prior to use. <u>More info</u>
containing Reconstitution Method: 1. Centrifu 2. Carefull 3. Close th 4. Briefly v at the both 5. Store th	ne was engineered to express the complete ORF with an expression tag. Expression epending on the nature of the gene.
2. Carefull 3. Close th 4. Briefly v at the both 5. Store th	F clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube ing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
	rifuge at 5,000xg for 5min. Fully open the tube and add 100ul of sterile water to dissolve the DNA. If the tube and incubate for 10 minutes at room temperature. If y vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid ottom. If the suspended plasmid at -20°C. The DNA is stable for at least one year from date of g when stored at -20°C.
RefSeq: <u>NM 07942</u>	<u>3422.3</u>
RefSeq Size: 862 bp	
RefSeq ORF: 453 bp	
Locus ID: 4632	

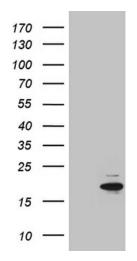
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	myosin light chain 1 (MYL1) (NM_079422) Human Tagged ORF Clone – RC202750
UniProt ID:	<u>P05976</u>
Cytogenetics:	2q34
Domains:	EFh
MW:	16.7 kDa
Gene Summary:	Myosin is a hexameric ATPase cellular motor protein. It is composed of two heavy chains, two nonphosphorylatable alkali light chains, and two phosphorylatable regulatory light chains. This gene encodes a myosin alkali light chain expressed in fast skeletal muscle. Two transcript variants have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:

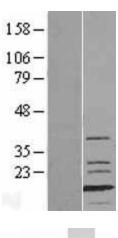


Circular map for RC202750

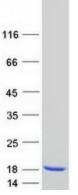


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MYL1 (Cat# RC202750, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MYL1 (Cat# [TA810681])(1:2000). Positive lysates [LY409202] (100ug) and [LC409202] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY409202]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202750 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MYL1 protein (Cat# [TP302750]). The protein was produced from HEK293T cells transfected with MYL1 cDNA clone (Cat# RC202750) using MegaTran 2.0 (Cat# [TT210002]).

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