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Product datasheet for RC213649

MYOM1 (NM_019856) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYOM1 (NM_019856) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYOM1
Synonyms:	SKELEMIN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC213649 representing NM_019856 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCTTTGCCTTTTTATCAGAGGTGCCACCAGCACTATGATCTCAGCTACCGCAACAAGGACGTGCGCA GCACCGTGAGTCACTACCAGCGGGAGAAGAAACGCTCCGCCGTCTACACCCAGGGCTCCACGGCCTACAG CAGCCGCTCCTCCGCCGCGCACCGCCGGGAGTCCGAGGCCTTCCGTCGGGCGTCCGCCTCCTCCTCCCAG CAGCAGGCCTCGCAGCACGCCCTGAGCTCTGAAGTCAGTCGGAAGGCAGCCTCAGCCTACGATTATGGCT CCTCCCATGGACTTACAGATTCCAGTCTGCTGTTAGATGATTATTCATCCAAGTTGAGCCCCAAACCAAA GAGAGCCAAGCACAGCCTACTGTCTGGAGAAGAGAAAGAAAATTTGCCCAGTGACTACATGGTACCCATT TTCTCAGGACGTCAAAAGCATGTCAGTGGAATTACTGATACGGAAGAAGAAAGAATTAAAGAAGCTGCTG CTTATATAGCCCAGAGGAATCTTCTTGCTAGTGAGGAAGGAATCACAACACCTAAACAGTCCACGGCATC CAAGCAGACCACGGCATCTAAGCAGTCCACGGCATCCAAGCAGTCCACAGCATCCAAGCAGTCCACGGCA TCCAGGCAGTCCACGGCATCCAGGCAGTCTGTGGTTTCCAAACAGGCCACATCCGCTCTTCAACAGGAAG AAACTTCTGAAAAGAAGTCAAGGAAAGTTGTGATTCGAGAAAAGGCAGAACGCCTGTCCCTGAGGAAAAC ATTAGAAGAAACCGAGACATATCATGCCAAGCTGAATGAAGACCATCTTCTCCATGCTCCTGAGTTTATC ATTAAACCTCGCTCCCACACGGTTTGGGAGAAGGAGAATGTAAAATTGCATTGCTCCATAGCAGGCTGGC CAGAACCTCGTGTCACGTGGTATAAAAACCAGGTGCCAATAAATGTCCATGCAAACCCTGGAAAGTATAT TATTGAGAGTCGATATGGGATGCACACTCTGGAGATTAATGCATGTGATTTTGAAGATACAGCTCAGTAC CGGGCCTCGGCGATGAATGTTAAAGGAGAGCTTTCGGCATATGCTTCAGTTGTGGTAAAAAGGTATAAGG GAGAGTTTGATGAGACTCGCTTCCACGCTGGGGCTTCCACCATGCCCCTCAGCTTTGGTGTGACCCCATA TGGTTATGCATCCCGGTTTGAGATCCACTTTGATGACAAATTTGATGTGTCTTTTGGGAGAGAGGGAGAG ACAATGAGTCTAGGCTGTCGTGTTGTCATCACTCCTGAAATTAAACATTTCCAGCCAGAGATCCAGTGGT ACAGAAACGGAGTACCTCTTTCTCCATCAAAATGGGTGCAAACACTTTGGAGTGGAGAGCGGGCAACGCT GACATTTTCCCATCTCAACAAAGAAGATGAAGGCCTCTATACAATCCGTGTACGGATGGGAGAATATTAT GAACAATATAGTGCTTATGTCTTTGTTCGAGATGCTGATGCAGAGATTGAAGGAGCCCCAGCTGCTCCCT

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Protein Sequence:

>RC213649 representing NM_019856
Red=Cloning site Green=Tags(s)

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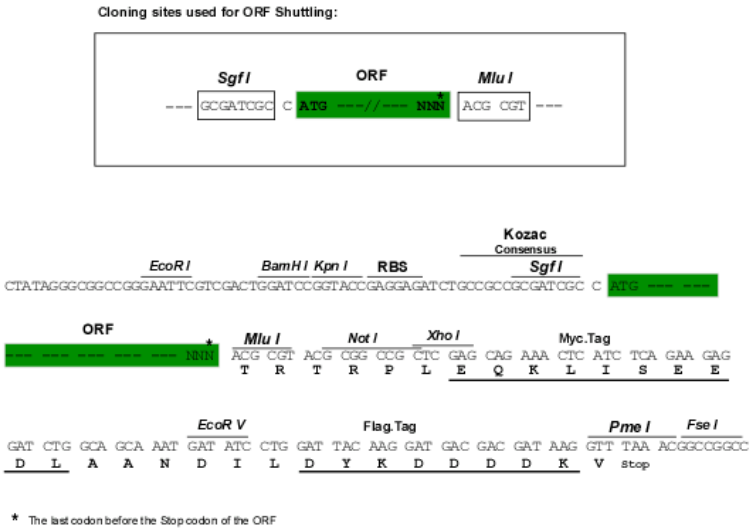
Restriction Sites: SgfI-MluI

Cloning Scheme:



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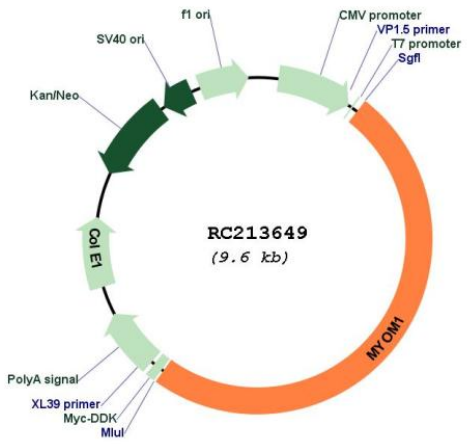
Plasmid Map:



ACCN:	NM_019856
ORF Size:	4767 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_019856.1, NP_062830.1

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RefSeq Size:	5560 bp
RefSeq ORF:	4770 bp
Locus ID:	8736
UniProt ID:	P52179
Cytogenetics:	18p11.31
MW:	177.5 kDa
Gene Summary:	The giant protein titin, together with its associated proteins, interconnects the major structure of sarcomeres, the M bands and Z discs. The C-terminal end of the titin string extends into the M line, where it binds tightly to M-band constituents of apparent molecular masses of 190 kD (myomesin 1) and 165 kD (myomesin 2). This protein, myomesin 1, like myomesin 2, titin, and other myofibrillar proteins contains structural modules with strong homology to either fibronectin type III (motif I) or immunoglobulin C2 (motif II) domains. Myomesin 1 and myomesin 2 each have a unique N-terminal region followed by 12 modules of motif I or motif II, in the arrangement II-II-I-I-I-I-I-II-II-II-II-II. The two proteins share 50% sequence identity in this repeat-containing region. The head structure formed by these 2 proteins on one end of the titin string extends into the center of the M band. The integrating structure of the sarcomere arises from muscle-specific members of the superfamily of immunoglobulin-like proteins. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

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