

Product datasheet for RC216881

Myosin 1C (MYO1C) (NM_001080950) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin 1C (MYO1C) (NM_001080950) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYO1C
Synonyms:	MMI-beta; MM1b; myr2; NMI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC216881 representing NM_001080950 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCTACCGGGCGTCGGCCCTGGGCAGTGACGGGGTTCGGGTGACCATGGAGAGTGCGCTCACCGCCC
GTGACCGGGTGGGGTGCAGGATTCGTGCTGCTGGAGAAGTTCACCAGCGAGGCCCGCTTCATCGAGAA
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ACCTGCCAGCCCCGAGCGCGGAGGTGCCGTGCGGGACCGGCTGCTACAGAGCAACCCGGTGTGGAGG
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CCAGGAAATCTCTGGGCCGAGGGGAATTCGCCTTCTGCACTATGCGGGGAGGTGACCTACAGCGTGAC
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Protein Sequence:

>RC216881 representing NM_001080950
 Red=Cloning site Green=Tags(s)

MRYRASALGSDGVRVTMESALTARDRVGVQDFVLLNFSEAAFIENLRRRFRENLIYTYIGPVLVSNP
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 TCPAPERGGAVDRLLQSNPVLEAFGNAKTLRNDNSSRFKGYMDVQDFDKGAPVGGHILSYLLEKSRVH
 QNHGERNFHIFYLLEGGEEETLRRLLGLERNPQSYLYLVKQCAKVSSINDKSDWKVVRKALTVIDFTED
 EVEDLLSIVASVHLGNIFHAANEEAQAQVTENQLKYLTRLLSVEGSTLREALTHRKIIAKGEELLSP
 NLEQAAYARDALAKAVYSRTFTWLVGKINRSLASKDVESPSWRSTTVLGLLDIYGFEVQHNSFEQFCIN
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 PIMSQCDFRSELSDKKRPETVATQFKMSLLQLVEILQSKEPAYVRCIKPNDKQGRFDEVLRHQVKYL
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 CRSISPEWKQQLQKAVASEIFKGGKDNYPQSVPRFLISTRGTDEISPRVLQALGSEPIQYAVPVVKYD
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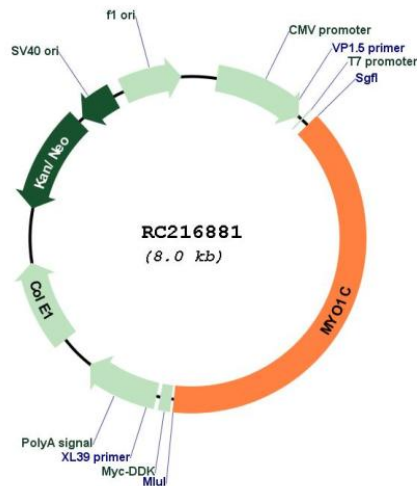
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001080950

ORF Size:

3132 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:	<ol style="list-style-type: none">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_001080950.2
RefSeq Size:	4742 bp
RefSeq ORF:	3135 bp
Locus ID:	4641
UniProt ID:	O00159
Cytogenetics:	17p13.3
MW:	119.4 kDa
Gene Summary:	This gene encodes a member of the unconventional myosin protein family, which are actin-based molecular motors. The protein is found in the cytoplasm, and one isoform with a unique N-terminus is also found in the nucleus. The nuclear isoform associates with RNA polymerase I and II and functions in transcription initiation. The mouse ortholog of this protein also functions in intracellular vesicle transport to the plasma membrane. Multiple transcript variants encoding different isoforms have been found for this gene. The related gene myosin IE has been referred to as myosin IC in the literature, but it is a distinct locus on chromosome 19. [provided by RefSeq, Jul 2008]