

Product datasheet for RC207069

MYO1F (NM_012335) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO1F (NM_012335) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYO1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207069 representing NM_012335 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAGCAAGGAGCGCTTCCACTGGCAGAGCCACAACGTGAAGCAGAGCGGCGTGGATGACATGGTGC
TTCTTCCCCAGATCACCGAAGACGCCATTGCCGCCAACCTCCGGAAGCGCTTCATGGACGACTACATCTT
CACCTACATCGGCTCTGTGCTCATCTCTGTAACCCCTTCAAGCAGATGCCCTACTTCACCGACCGTGAG
ATCGACCTATCAGGGCGCGCCAGTATGAGAATCCCCGCACATCTACGCCCTCACGGACAACATGT
ACCGAACATGCTTATCGACTGTGAGAACCAGTGTGCATCATTAGTGGAGAGAGTGGAGCTGGGAAGAC
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TACCAGCTGTGGAAGGGGCTCCAGGAGCAAAGGCAGAACCTGGGCTCATGACACCGGACTACTATT
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GGCCTTCTCCGGATGCTCTTCCCCGAGAAGCTGGATGGAGACAAGAAGGGGCGCCCCAGCACCGCCGGC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>RC207069 representing NM_012335
 Red=Cloning site Green=Tags(s)

MGSKERFHWQSHNVKQSGVDDMVLLPQITEDAIAANLRKRFMDDYIFTYIGSVLISVNPFKQMPYFTDRE
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 SKIKKQANDLVATLMRCTPHYIRCIKPNETKRPRDWEENRVKHQVEYLGLKENIRVRRAGFAYRRQFAK
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 PRGPPSTSLGASRRPRARPPSEHNTEFLNVPDQGMAGMQRKRVSQRPVPGVGRPKPQRPTHGPRCRALY
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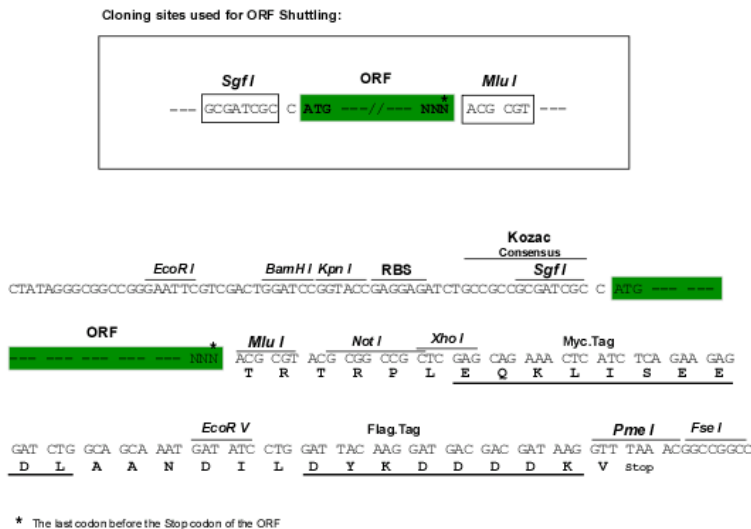
TRTRPLEQKLISEEDLAANDILDYKDDDDK

Chromatograms:

https://cdn.origene.com/chromatograms/mg3174_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012335

ORF Size: 3294 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

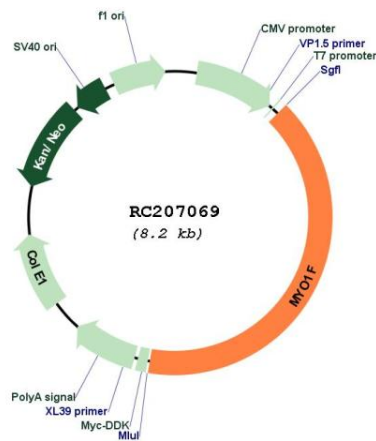
Reconstitution Method:

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.

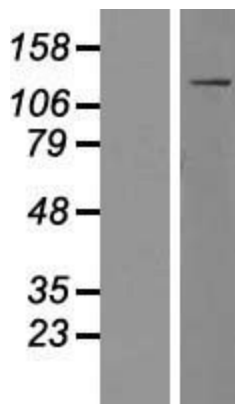
RefSeq: [NM_012335.4](#)
RefSeq Size: 3860 bp
RefSeq ORF: 3297 bp
Locus ID: 4542
UniProt ID: [O00160](#)
Cytogenetics: 19p13.2
Domains: IQ, SH3, myosin_head
MW: 124.7 kDa

Gene Summary: Myosins are molecular motors that use the energy from ATP hydrolysis to generate force on actin filaments. The protein encoded by this gene is an unconventional myosin that may be involved in the intracellular movement of membrane-enclosed compartments. There is evidence to suggest that mutations in this gene can result in hearing loss. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RC207069



Western blot validation of overexpression lysate (Cat# [LY415831]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207069 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).