

Product datasheet for RC226340

MYO1B (NM_001130158) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO1B (NM_001130158) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYO1B
Synonyms:	MMI-alpha; MMIa; MYH-1c; myr1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226340 representing NM_001130158 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAATGGAGGTGAAAACCTCACTTCTGGACAATATGATTGGAGTTGGGGATATGGTTCTTTTAG
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CATTGGAAGTGTGTTATATCTGTTAACCCATATCGGTCTTACCATTATTACCAGAGAAAAGTGAA
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ATTATGCTGAAAAGGTGCTGTACCAGGTGGAAGGATTCGTTGACAAAAACAATGACCTTCTCTATCGAGA
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Protein Sequence:

>RC226340 representing NM_001130158
 Red=Cloning site Green=Tags(s)

MAKMEVKTSLLDNMIIGVDMVLLLEPLNEETFINNKKRFDHSEIYTYIGSVVVISVNPYRSLPIYSPEKVE
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 ALAKNLYSRLFSWLVRINESIKAQTKVRKVMGVLDIYGFEIFEDNSFEQFIINYCNEKLQQIFIELTL
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 GYAFRQAYEPCLEKRYKMLCKQTWPHWKGPARSGVEVLFNELEIPVEEYSFGRSKIFIRNPRTLFKLEDLR
 KQRLEDLATLIQKIYRGWKCRTFLMKSQIVIAAWYRRYAQQKRYQTKSSALVIQSYIRGWKARKIL
 RELKHQRCKEAVTTIAAYWHGTQARRELRLKEARNKHAIAVIWAYWLGSKARRELKRLKEEARRKHA
 VAVIWAYWLGKVRREYRKFFRANAGKIIYFTLQRIYQKYLFLMKNKMPSPIDKNWPSRPYLFLDST
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 PTCKRKNRLLLEVAVP

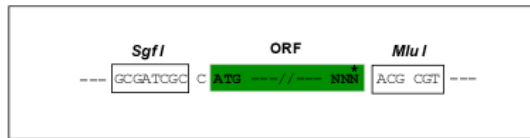
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

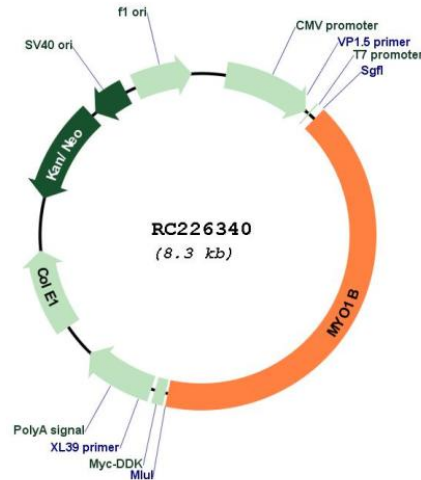
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001130158

ORF Size: 3408 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_001130158.3](#)

RefSeq ORF: 3411 bp

Locus ID: 4430

UniProt ID: [O43795](#)

Cytogenetics: 2q32.3

MW: 131.8 kDa

Gene Summary:

Motor protein that may participate in process critical to neuronal development and function such as cell migration, neurite outgrowth and vesicular transport.[UniProtKB/Swiss-Prot Function]