

Product datasheet for RC218747

MYO16 (NM_015011) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | MYO16 (NM_015011) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | MYO16 |
| Synonyms: | MYAP3; Myo16b; MYR8; NYAP3; PPP1R107 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC218747 representing NM_015011 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAATCGACCAGTGTCTGCTAGAGTCCCTTCCCCTTGGCCAACGGCAGCGTCTAGTGAAGCGCATGC
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 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218747 representing NM_015011
 Red=Cloning site Green=Tags(s)

MEIDQCLLESPLGQRQRLVKMRCEQIKAYYEREKAFQKQEGFLKRLKHAKNPKVHFNLTMDLQDAIHH
 HNDKEVLRLLKEGADPHLTVSSGGSLHLHCARYDNAFIAEILIDRGVNVNHQDEDFWTPMHIACACDNDP
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 SGGNVNEKNDEGVTLHMACASGYKEVVSLEHGGDLNIVDDQYWTPLHLAAKYQTNLVKLLMHQAN
 PHLVNCNEEKASDIAASEFIEEMLLKAEIAWEEKMKEPLSASTLAQEEPVEEIIHDLPVLSKLSPLVLP
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 IQKRFGNQIYTFIGDILLVNPYKELPIYSSMVSQLYFSSSGKLCSSLPPLHFSCVERAFHQLFREQRP
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 PPGDEDDSEPVYIEMLGHAARPDSPDPGESVYEEEMKCLPDDGGPGAGSFLHGHASPLLHRAPEDEAAG
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 AEAPKVHPKNSAPVAGPCSSFPKIPYSPVKATRADARKAGSSASPPAPYSPSSRPLSSPLDELASL FN
 SGRSVLRKSAAGRKIREAEGFETNMNISSRDPSTSEITSETQDRNANNHGIQLSNSLSSAITAENGNSI
 SNGLPEEDGYSRLSISGTGTSTFQRHRDSHTTQVIHQRLRSENEVALQELLDWRRLKCEEGDQWQIILH
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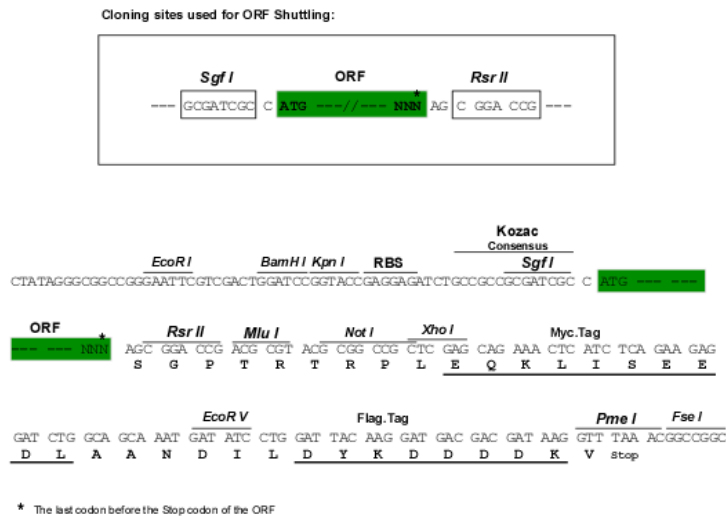
SGPTRRRLQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8102_g04.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_015011

ORF Size: 5574 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_015011.2](#)

RefSeq Size: 6874 bp

RefSeq ORF: 5577 bp

Locus ID: 23026

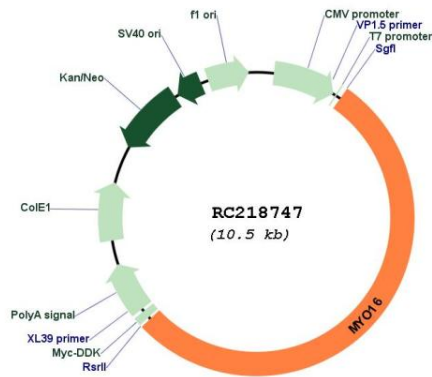
UniProt ID: [Q9Y6X6](#)

Cytogenetics: 13q33.3

MW: 206.13 kDa

Gene Summary: This gene encodes an unconventional myosin protein. The encoded protein has been proposed to act as a serine/threonine phosphatase-1 targeting or regulatory subunit. Studies in a rat cell line suggest that this protein may regulate cell cycle progression. A variant within this gene may be associated with susceptibility to schizophrenia and elevated expression of this gene has been observed in the frontal cortex of human schizophrenia patients. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RC218747