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Product datasheet for MC225001

Myo16 (NM_001081397) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myo16 (NM_001081397) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myo16
Synonyms:	BM140241; C230040D10Rik; Gm1105; mKIAA0865; NYAP3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC225001 representing NM_001081397
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAATTGACCAGTGCTTGCTGGAGTCCCTCCCCCTGGGCCAGCGGCAGCGTCTGGTGAAGCGCATGC
GCTGTGAGCAAATCAAAGCTTACTATGAGCGAGAGAAAGTGTTCCAGAAGCAGGAAGGGCCCCTGAAGAG
AAGCAAGCCTGGGAAGAGGCAGAAGGTTCGCTTCGGCCTGGCTGACATGATTCAGGATGCTGTCATCCAC
CATCATGACAAAGAGGTGCTTCAACTCTTGAAGGAGGGGGCAGATCCACACACTCTCGTGTCCTCAGGAG
GGTCTTTGCTACACCTGTGTGCTAGATACGACAACGTCTTCATTGCAGAAGTCCTCATTGACAGGGGCGT
CAATGTCAACCATCAGGATGAGGACTTTTGGACCCCAATGCACATTGCCTGTGCCTGTGACAACCCTGAC
ATTGTCCTGTTGCTCATATTAGCTGGAGCCAACGTCTTTCTGCAAGATGTGAATGGAAACATCCCTTTAG
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CAGCTCGCTGCGCCAGATAAAGCTGCAGCGACCCCTGAGTATGCTAACGGACGTCAGGCACTTCCTGTCT
TCAGGCGGAGATGTCAACGAGAAAAATGATGATGGAGTGACCCTGCTGCACATGGCGTGTGCCAGTGGGT
ATAAAGAGGTGGTATTGCTTCTCCTGGAACACGGTGGAGACCTCAATGGGACAGACGACAGGTACTGGAC
ACCCCTGCACTTAGCAGCCAAGTATGGCCAGACAACCCTGGTGAAGCTCCTTCTGGCACATCAGGCAAAC
CCCCACCTTGTGAACTGCAATGGGGAGAAACCATCAGACATCGCTGCCTCCGAGTCGATCGAGGAGATGT
TGCTGAAAGCCGAAATCGCCTGGGAAGAGAAAATGAAAGAGTCTCCGTCAGCCCCCAGCTTAGCACAGGA
AGAGCTGTACGAGATCCTTCATGACCTCCCAGATCTCTCCAGTAAGCTAAGTCCCCTGGTGCTACCAATC
GCCAAGCAGGACAGCTTACTGGAAAAAGACATTATGTTCAAAGACACAACGAAAGGTCTGTGCAAGCAGG
AGTCCCAGGATGGCCCTCCTGAGACCAGCATGACAAGCAACTGCGGCAAGCCAGAGCAGGTCCAGGTCAT
GCCTCCAGCTCCCAGCGATGACCTAGCCACACTCAGTGAGCTTAATGACAGCAGCCTGCTGTATGAAATT
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AAGAACTCCCAATTTACTCCACTATGGTGTCCCAGATGTATCTGAGCCCCACAGGCCAGCGCAGCCCCTC
ACTGCCACCCCACCTCTTCTCCTGCGCAGAGAGAGCCTTCCACAGACTGTTCCAGGAGCGAAAGCCACAG
AACATCATCCTCAGTGGAGAACGAGGGTCAGGGAAGACCCAGGCCAGCAAGCAGATCATGAAGTACCTGA

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CCAGCAGGGCCAGCTCCAGCTGTACCATGTTTGACTCCAGACTCAGGCATGCCATATACATCGTGGAGGC
CTTCGGACATGCCAAGACCACACTCAACAATGTGTCCAGTTGCCTCATACAGTACTGGGAACTGCAGTGC
TGTCAGAGGAGAAAGCACATAACTGGAGCCAGAATTTCCACTTACATGCTGGAGAAGTCCAGGGTTGTGG
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ATGTGGACTTCACCTTAATAACTTCTGTGCACACCGGTATGTGAGCCAAGGCATGCGGGAAGATGTGTCT
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TGCACTAACAGAAGCTGACTCGGCCTTTGTCTCTGACCTCCAGCTTCTGGAACAAGTGGCAGGTATGTTG
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TACGTCGACACACTATCCAGATGGCTGCGTTTTACCGCGACCTCCTGGCCAAGTCACTGTACAGTCGTTT
GTTTGGCTTTCTGATAAACACTGTGAATTGCTGCCTCCAGAATCAAGATGAATATAAAAGCCTACAGACA
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CACGGAAACAGCCTCCACCCAAGCCAAAGAGGGACCCCAACACCCGGCTGAGTGCCTCCTATGAGGCTGT
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GACTATAGCACCATGAAGAAGATTCCCCCTCGGAAGCCAAAGAGAAGTCCCCACACGAAGCTCAGTGGCT
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CTGCCATTGCCACAGGGCGACTATGACGATGATGCTGAGCCTGTGTACATCGAGATGGTGGGGAATGCAG
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CTTGCCAGAGGAGGGCTGTGGCCTAGGGATGCTCACCTTCCTGCCTGCCTCACCTCCTTTGTTTTTAGAG
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CTCAAGTACCCGGTGCAGTCTGAAGGCTCCAGTCCCTTGTCACCACAGTACTCAAAAGCACAGAAGGGAG
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ACCGGGAAAGACAGCCAGAGCAGACCTCAGGAAGACCTCATCCACCTTCTCTCCACCAAGCCCTTACAGC
CCACCCAACAGCAGACCGCTGTCCAGTCCTCTGGACGAGCTGGCCAGCCTCTTCAACTCGGGAAGGAGTG
TGCTACGCAGGTCTGCAGTGGGACGAAGGATCAGGGAGGCTGAAGGTTTTGAAACTAACATGAACCTGAG

TAGCCGGGATGAACCCAGTTCATCAGAAATGGCTTCAGAGACTCAAGACAGAAACGCCAACAACCATGGG
ACTCAACTCTCCAGTTCCCTGTCTAGCGATGTGACGGCTGAAAATGGAAATCCTGTCACCAATGGTTTAG
CTGAGGACGATGGGTGCTCAAGGCTGTGTCTGAGTGGCATGGGGACTTCATCATTTCAGAGAAATCGGGA
GAGCCACACCACCCAGGTTATCCATCAGCTGAGGCTCTCTGAGAATGAAAGCGTAGCTCTGCAGGAGCTG
CTGGACTGGAGGAGGAAGCTCTGTGAGGCCAGAGAAGGCTGGCAGGAAGCCCTGCAGCACCCGGAGCCCC
GTGCACCTCCGCCGCCACCCTGCAAGAAGCCGACACTCCTAAAGAAGCCTGAGGGGGGCTCCTGCACCAG
GCTGCCTTCCCAACTCTGGGACAGCAGTATGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001081397

Insert Size: 5634 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001081397.1, NP_001074866.1

RefSeq Size: 6296 bp

RefSeq ORF: 5634 bp

Locus ID: 244281

Cytogenetics: 8 A1.1

Gene Summary: Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails are presumed to bind to membranous compartments, which would be moved relative to actin filaments. May be involved in targeting of the catalytic subunit of protein phosphatase 1 during brain development (By similarity). Activates PI3K and concomitantly recruits the WAVE1 complex to the close vicinity of PI3K and regulates neuronal morphogenesis.[UniProtKB/Swiss-Prot Function]