

Product datasheet for **RR217725**

Myo9b (NM_001271066) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myo9b (NM_001271066) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Myo9b
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR217725 representing NM_001271066
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCTCACGAGGCTGGCAGCTCAGGCCGAAGCGGCCGGCCACCTCCACCTGCACATCTACCTC
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CAGGGTGAGGGTATCTCGTGGCACAACATTGACTACACCGACAACGTGGGCTGTATCCACCTCATCAGCA
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Protein Sequence:

>RR217725 representing NM_001271066

Red=Cloning site Green=Tags(s)

MSAHEAGSSGRRRPATFHLHIYPQLPSAGSQTSCRVTATKDSTTSDVIRDVVASLHLDGSKHYVLVEVKE
 SGGEEWLDASDSPVHRVLLWPRAQKEHPREDGYYFLQERNADGSIQYLHVQLLAQPTAACRLVERGL
 LPRPQADFDDL CNLPELNEANLLQSLKLRVQQKIYTYAGSILVAINPFKFLPIYNPKYVKMYENQQLGK
 LEPHVFALADVAYTMLRKHVNQCIVISGESGSGKTQSTNFLIHCLTALSQKGYASGVERTILGAGPVLE
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 FIIQHFAGRVKYQIKDFREKNMDYMRPDI VALLRGS DSSVYRQLIGMDPVAVFRWAVLRAAIRAMAVLRE
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 EKPLKGGKRNRRKVGQITVSEKWRESVFRKITNANELKFLDEFLLNKVNDLRSQKTPIESLFI EATERFR
 SNIKTMYSVPNGKIHVGYKDLMENYQIVVSNLAAERGEKDTNLV LNVFQSLLDEF TRSYNKTD FEPVKGK
 AQK KKRKQERAVQEHNGHV FASYQVNI PQSCEQCLSYIWLMDKALLCSVCKM TCHKKCVHKIQSYCSYTG
 RRKSELGAEPGHFGVCVDSL TSDKASVPIVLEKLL EHVEMHGLYTEGLYRKSGAANRTREL RQALQTDPA
 TVKLEDFPIHAITGVLKQWLRELPEPLMTFAQYGDFLRAVELPEKQEQLAAIYAVLDHLP EANHTSLERL
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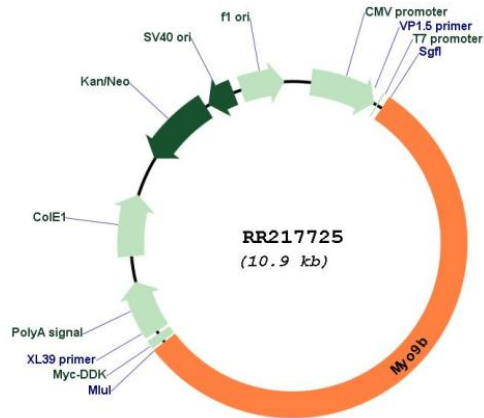
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271066

ORF Size: 6048 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:	<u>NM_001271066.1, NP_001257995.1</u>
RefSeq Size:	7092 bp
RefSeq ORF:	6051 bp
Locus ID:	25486
Cytogenetics:	16p14
MW:	229.2 kDa
Gene Summary:	displays ATP-dependent binding to actin: binds members of the rho family of GTPases; may play a role in formation of the actin cytoskeleton [RGD, Feb 2006]