

## Product datasheet for **RR211834**

### Myo9b (NM\_012984) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myo9b (NM_012984) 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:	>RR211834 representing NM_012984 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGCTCACGAGGCTGGCAGCTCAGGCCGAAGCGGGCCGACCTCCACCTGCACATCTACCTC  
AGCTGCCAGTGGTGGGAGCCAGACCTCATGCCGTGTAACCGCCACCAAGGACAGCACAACAAGCGATG  
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TCGGGTGGGAGGAGTGGGTGCTGGATGCCAGCGACTCGCCTGTGACCCGAGTGTGCTGTGGCCTCGGC  
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CCCCTCAAGTTCCTGCCATTTACAACCCCAAGTATGTGAAGATGTACGAGAACCAGCAGCTGGGAAAG  
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CAGGGTGAGGGTATCTCGTGGCACAACATTGACTACACCGACAACGTGGGCTGTATCCACCTCATCAGCA  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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**Protein Sequence:**

>RR211834 representing NM\_012984  
 Red=Cloning site Green=Tags(s)

MSAHEAGSSRRRPFHLHIYPQLPSAGSQTSCRVTATKDDSTSDVIRDVVASLHLDGSKHYVLVEVKE  
 SGGEEWLDASDSPVHRVLLWPRAQKEHPREDGYFLLQERNADGSIQYLHVQLLAQPTAACRLVERGL  
 LPRPQADFDDLCNLPENANLLQSLKLRVQKITYTYAGSILVAINPFKFLPIYNPKYVKMYENQQLGK  
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 DWIVLRINHALLNKDMEEAVSCLSIGVLDIFGFEDFERNSEFCINYANEQLQYFYTFQHFIFKLEQEEY  
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 FIIQHAFGRVKYQIKDFREKNMDYMRPDIVALLRGSDDSSVYRQLIGMDPVAVFRWAVLRAAIRAMAVLRE  
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 PAQKTVP AESHEKVPSSREKRESRRQRGLEHVERQNKHIQSCREENSTLREPSRKASLETGESFPEDTKE  
 PREDGLETWTETAAPSCPQVPIVGDPPRSPSPLQRPASLDLDSRVSPVLPSSSLESPQDEDKGENSTKV  
 QDKPESPSGSTQIQRYQHPDTERLATAVEIWRGKKLASAMLSQSLDLSEKPRTAGAALTPTEERRISFST  
 SDVSKLSPVKTSTEVDGDL SAKKPAGHKKKSEDPSAGPDAGLPTGSQGDSKSAFKRFLHAKDKKPSLE  
 GVEETEGSGGQAAQAPARKTLDVPSSQHRHTTGEKPLKGGKNNRNRKVGQITVSEKWRESVFRKITNAN  
 ELKFLDEFLLNKVNDLRSQKTPIESLFIATERFRSNIKTMYSVPNGKIHVGYKDLMENYQIVVSNLAAE  
 RGEKDTNLVLNVFQSLLEDEFTRSYNKTDPEPVKGAQKKRKRQERAVQEHNGHVAFASYQVNIPQSCEQCL  
 SYIWLMDKALLCSVCKMTCHKKCVHKIQSYCSYTGRRKSELGAEPGHFGVCVDSLTSKASVPIVLEKLL  
 EHVEMHGLYTEGLYRKSGAANRTRELRLQALQTDPATVKLEDFPIHAITGVLKQWLRELPEPLMTFAQYGD  
 FLRAVELPEKQEQLAAYAVLDHLPANHTSLERLIFHLVKVALLEDVNRMSPGALAIIFAPCLLRCPDN  
 SDPLTSMKDVLIKITTCVEMLIKEQMRKYVKMEEINHLEAAESI AFRRLLRQNPWPLKLGFSPPYEG  
 VRTKSPRTPVVQDLEELGALPEEAAGGDEDEKEILMERIQSIKEEKEDITYRLELPDPRGSDENLDSE  
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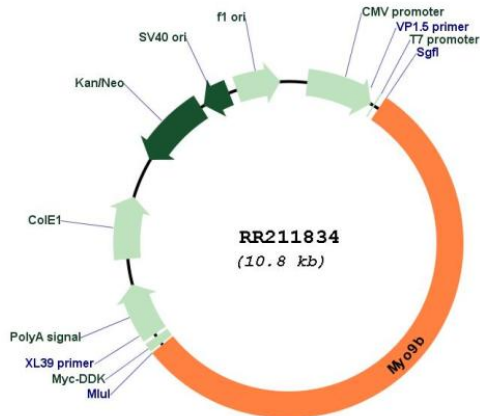
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_012984

ORF Size:

5943 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_012984.3</a></u> , <u><a href="#">NP_037116.2</a></u>
<b>RefSeq Size:</b>	6987 bp
<b>RefSeq ORF:</b>	5946 bp
<b>Locus ID:</b>	25486
<b>Cytogenetics:</b>	16p14
<b>MW:</b>	225.1 kDa
<b>Gene Summary:</b>	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]