

## Product datasheet for RC226439

### MYO9B (NM\_001130065) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MYO9B (NM_001130065) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYO9B
Synonyms:	CELIAC4; MYR5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226439 representing NM_001130065 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGCGGCCTACCACCTGCACATCTACCCC  
AGCTGTCCACCACCGAGAGCCAGGCCTCGTGCCCGTGACTGCCACCAAGGACAGCACCCTCGGACGT  
CATCAAGGACGCCATTGCCAGCCTGCGGCTGGACGGCACCAAATGTTATGTGCTGGTGGAGTCAAAGAG  
TCGGGAGGCGAGGAATGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGTGCTATGGCCCCGGC  
GGGCACAGGACGAGCACCTCAGGAGGATGGCTACTTCTGTGTCAGGAGCGCAACGAGATGGAAC  
CATCAAGTACGTGCATATGCAGCTGGTGGCGCAGGCCACAGCCACCCGGCGCCTAGTGGAGCGTGGCCTC  
CTGCCACGGCAGCAGGCGGACTTTGATGACCTGTGTAACCTCCCCGAGCTAACCGAGGGCAACCTCCTGA  
AGAACCTCAAGCACCGCTTCTGCAACAAAAGATCTACACGTACGCGGGGAGCATCCTGGTGGCCATCAA  
CCCCTTAAGTTCTGCCATCTACAACCCCAAGTACGTGAAGATGTATGAGAACCAGCAGCTGGGCAAG  
CTGGAGCCACACGTCTTCGCGCTGGCCGACGTGGCCTACTACACCATGCTCAGGAAGCGGTGAACCACT  
GCATCGTGATCTCGGGTGAAGCGGCTCCGGCAAGACCCAGAGCACCAACTTCTCATCCACTGCCTCAC  
CGCCCTCAGCCAGAAGGGCTACGCCAGCGGCGTCGAGAGGACCATCCTGGGTGCTGGCCCTGTGCTGGAG  
GCTTTTGGAAATGCCAAGACAGCCACAACAACAACTCCAGCCGTTTGGGAAATTCATCCAAGTACGT  
ACCTAGAGAGTGGCATCGTGAGAGGAGCTGTCGTCGAGAAATATCTGCTTAAAAGTCTCGCCTGGTGT  
TCAGGAGAAGGATGAGAGGAACACCATGTGTTTTATTATTTGTTACTTGGGGTCAAGGAGGAGAGCGC  
CAAGAATTTCAAGTCAAGCAGCCTGAAGATTATTTCTACCTCAACCAGCATAACTGAAGATTGAAGATG  
GGGAGGACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTTCTCCCCGCCAC  
CAAGAAGCAGATTTTGGCGTCTCTCGCCATCCTGTACCTGGGCAACGTCACCTATAAGAAGAGAGCT  
ACAGGCCGAGAGGAAGGTTGGAGTTCGGGCCACCCGAGGTGCTGGACACCTGTGCGAGCTTCTGAAGG  
TGAAGCGAGAAATCTTGGTGGAGTTCTGACCAAAAGAAAAACGGTGACCGTCAACGACAAGCTTATCCT  
TCCTACAGCCTCAGCGAGGCCATCACTGCCCGGACTCCATGGCCAAGTCTCTGTACAGCGCCCTGTT  
GACTGGATTGTGCTGCGGATCAACCACGCACTCTCAACAAGAAGGACGTGGAAGAGGCAGTCTCGTGCC



[View online >](#)

TGTCCATTGGGGTCTGGACATCTTCGGGTTTGAAGACTTCGAGAGGAACAGCTTTGAGCAGTTCTGCAT  
 CAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAGCACATCTTCAAGCTGGAGCAGGAGGAATAT  
 CAGGGCGAGGGGATCACGTGGCACAACATCGGCTACACAGACAATGTCCGCTGCATCCATCTCATCAGCA  
 AGAAACCCACGGGCTCTTCTACCTGCTGGACGAGGAGCAACTCCCCACGCCACGAGCCAGACCCT  
 GCTGGCCAAGTTCAAACAGCAACATGAGGACAATAAGTACTTCTGGGCACCCCGGTCATGGAGCCAGCT  
 TTCATCATCCAGCACTTCGCAGGGAAGGTGAAATATCAGATCAAGGACTCCGGGAGAAGAATATGGCAT  
 ACATGCGGCCAGACATCGTGGCCCTGCTGCGGGCAGTGACAGCTCCTACGTGCGGGAGCTCATCGGCAT  
 GGACCCCGTGGCCGTGTTCCGCTGGGCGCTGCTCCGGGCTGCTATCCGGGCCATGGCAGTCTTCGGGAG  
 GCCGGACGCTGCGGGCCGAGAGGGCCGAAAAGGCTGCAGGTATGAGCAGCCCTGGTGCCAAAAGTCACC  
 CAGAAGAGCTGCCAAGAGGAGCCAGCACCCCTTCGAAAAACTTTACCGGATTTGCATAACCAAATGAT  
 CAAGAGCATCAAAGGATTGCCCTGGCAGGGCGAGGACCCCGTAGCCTTCTCCAGTCCCTCAGTCGGCTC  
 CAGAAACCCCGCCTTTCATCCTGAAAAGTAAAGGTATCAAACAAAAGCAGATCATTCAAAGAACCTAC  
 TGGACTCAAAGTCCCTGAAACTCATCATCAGCATGACTCTGCACGACCGCACCACCAAGTCCCTACTGCA  
 CCTGCACAAGAAGAAAAGCCACCAAGCATCAGCGCCAGTTCAGACATCCCTTAAACAGCTCTTGGAG  
 GCACTGGGAAGGCGGAGCCCTTTTATCCGCTGCATCCGTTCCAATGCTGAAAAGAAAGAGCTGTGCT  
 TTGACGACGAGCTGGTCCCTGCAGCAGCTGCGCTACACCGCATGCTGGAGACCGTGCATCCGGAGGTC  
 AGGGTACAGCGCAAGTACACGTTCCAGGATTTACCGAGCAGTTCAGGTGCTCCTGCCAAGGATGCC  
 CAGCCCTGCAGGGAGGTCTCCACCCTCCTGGAGAAAATGAAGATAGACAAGAGGAACTACCAGATCG  
 GGAAGACCAAGGTCTTCTGAAGGAGACGGAGCGCAAGCCCTGCAGGAGACGCTGCACCGGGAGGTGGT  
 GCGGAAAATCCTGCTGCTGCAGAGCTGGTTCGGATGGTCTGGAGCGTCGGCACTTCTGCAGATGAAG  
 CGGGCCCGCTCACCATCCAGGCCTGCTGGCGGTCTACCGGGTCCGAGGGCGCTGGAGAGGACGCAGG  
 CTGCGGTGTACTCCAGGCCTCATGGAGGGCTACTGGCAGCGGAAGCTTACCGGCACCAAGAACAGAG  
 AATCATAAGGAGCAAGAGAAAGGAGAGGGAAGCCCTGGAAGCCGCAAGAGCAGGTGCTGAGGAGGGCGAC  
 AGGGTACAGCGGCTGAGGGCAGCAGGTAGCTGAGCAGGGCCGAGCCAGCGGAGGATGGCGGGCACCT  
 GGCATCGGAGCCTGAGGTGCAGCCAAGTACAGGTCCCCCTAGAGCACTCCTCACCTGAGAAGGAGGCC  
 CCAAGCCAGAGAAGACTCTCCACCCAGAAAACCGTGGCGGCTGAAAGTACAGAGAAAGTCCCCAGCA  
 GCCGGGAGAAGCGTGAGTCGCGTCGGCAAAGAGGGCTGGAGCACGTCAAGTTCCAGAACAACACATCCA  
 GTCCTGCAAGGAGGAGAGTGCCTCAGAGAACCTTCCAGAAGGGTCAACAGGAGCAAGGGGTGAGTCTC  
 CTGGAAGACAAAAAGGAGAGCAGAGAAGATGAAACCTTCTAGTCGTAGAGACGGAGGCTGAGAACACAT  
 CTAAAAGCAGCCACAGAGCAACCCAGGCCATGGCAGTTGGCAAGGTCTCTGAAGAACTGAGAAGAC  
 GCTGCCAGTGGGAGCCCAAGCCCTGGCCAGTTGGAGCGCCGACCAGCCTGGCCCTGGACAGCAGGGTC  
 AGCCACCGGCCCTGGCAGCGCCCGAGACCCCGAGGACAAGAGCAAACCATGTGGCAGCCCAAGGG  
 TTCAGGAAAAGCCGACAGCCCGGAGGCTCCACGCAGATCCAGCGGTACCTGGACGCCGAGCGGCTGGC  
 CAGCGCGTGGAACTGTGGCGGGCAAGAAGCTGGTGGCCCGCCAGCCCTAGTGCCATGCTCAGCCAG  
 TCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGCCGCCCTCACGCCACAGAGGAGAGGGCCACCT  
 CCTTCTCCAGGACGACGTCTCCAAGCTCCTCCCGTCCCTGGCCAAGGCTCAGCCTGCAGCAGAAACCAC  
 GGACGGAGAGCGAAGTGGCAAAAAGCCAGCTGTCCAGAAGAAGAAGCCAGGCGACGCATCCTCCCTCCA  
 CCAAGGATAAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAATGCAGTGTCCGGGACAGTGGTGTCT  
 GGAAGCCACCACCATGAAGAAGGCTGGAAGCCCTCCGACAGCAGCATCGCCACGCTGCAGGTGAG  
 AAGCGACCAAGGAACCAGGAGCAAGGGAAGAAGCAAGTGTCAAGATTGGGAAGATCACAGTGT  
 CAGAGAAGTGGCGGAATCGGTGTTCCGCCAGATCACCACGCCAATGAGCTCAAGTACCTGGACGAGTT  
 CCTGCTCAACAAGATAAATGACCTCCGTTCCAGAAGACGCCATTGAGAGCTTGTATCGAAGCCACC  
 GAGAAGTTCAGGAGCAACATCAAACGATGTACTCTGTCCGAACGGGAAGATCCACGTGGGCTACAAGG  
 ATCTGATGGAGAATACCAGATCGTCGTAGCAACCTGGCCACTGAGCGTGGCCAGAAGGACACCAACCT  
 GGTCTCAACCTTCCAGTCACTGCTAGATGAGTTACCCGTGGCTACACCAAGAAGCACTTCGAGCCA  
 GTGAAGCAGAGCAAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGTGTGTCCAGGAGCACAACGGGCACG  
 TGTTCCGACGCTACCAGTTAGCATCCCGCAGTGTGCGAGCAGTGCCTCTCTATATCTGGCTCATGGA  
 CAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCCTGCACAAGATTAGAGCCAC  
 TGCTCCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCGTGTGCGTAGACA  
 GCCTGACCAGCGACAAGGCTCGGTGCCATCGTGTGGAGAAGTCTTGAACAGTGGAGATGCACGG

CCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGCTGCCAACCGCACTCGGGAGCTCCGGCAGGCGCTG  
 CAGACAGACCCCGCAGCAGTCAAGCTGGAGAATTCCCCATCCACGCCATCACAGGGGTGCTGAAGCAGT  
 GGCTGCGGGAGCTGCCGAGCCCTCATGACCTTCGCACAGTACGGCGACTTCTCCGAGCCGTCGAGCT  
 GCCGGAGAAGCAGGAGCAGCTGGCTGCCATCTATGCCGTCTGGAGCACCTCCAGAAGCCAACCACAAC  
 TCCCTGGAGAGACTCATTTCCACCTTGTCAAGGTGGCCCTGCTCGAGGATGTCAACCGCATGTACCTG  
 GGGCGTGGCCATTATCTTCGACCCCTGCCTCTGCGCTGCCCTGACAACCTCGGACCCGCTGACCAGCAT  
 GAAGGACGTCCTCAAGATCACCACGTGCGTGGAGATGCTGATCAAGGAGCAGATGAGGAAAATAAAAGTG  
 AAGATGGAGGAGATCAGCCAACCTGGAGGCTGCAGAGAGTATCGCCTCCGAGGCTTTCGCTCTCGGAC  
 AAAATGCTCCATGGCCTCTCAAACCTGGGGTTTTGCTCTCCTATGAGGGGTCTGAACAAGAGCCCAA  
 GACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTGGAGGAGGAGGAGCCGGCGGCGATGAGGAC  
 CGGAAAAGGAGATTCTCATTGAACGGATCCAGTCCATCAAGGAGGAGAAGGAGGACATCACCTACCGGC  
 TGCCGGAGCTGGACCAAGGGGCTCGGACGAGGAGAACCTGGACTCGGAGACGTCGGCCAGCACCAGAG  
 CCTGCTGGAGGAGCGGGCCGGGGGGGCTCGGAAGTCAGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226439 representing NM\_001130065  
 Red=Cloning site Green=Tags(s)

MSVKEAGSSGRREQAAYHLHIYPQLSTTESQASCRVTATKDSTSDVIKDAIASLRLDGTKCYVLVEVKE  
 SGGEEWLDANDSPVHRVLLWPRRAQDEHPQEDGYYFLLQERNADGTIKYVHMQLVAQATATRRLLVERGL  
 LPRQQADFDDL CNLPEL TEGNLLKNLKHRLFLQKLIYTYAGSILVAINPFKFLPIYNPKYVKMYENQQLGK  
 LEPHVFLADVAYYMLRKRNVQCIVISGESGSGKTQSTNFLIHCLTALSQKGYASGVERTILGAGPVLE  
 AFGNAKTAHNNNSRFGKFIQVSYLESIGVIRGAVVEKYLLEKSRLVSQEKDERNYHVFFYLLLVGSEER  
 QEFQLKQPEDYFYLNQHLNKIEDGEDLKHDFERLQKMEMVGFPLPATKKQIFAVLSAILYLVNVTYKKRA  
 TGREEGLEVPPEVLDLTSQLLKVKREILVEVLTKRKTVTVNDKILPYSLSEAITARDSMAKSLYSALF  
 DWIVLRINHALLNKDVVEAVSLSIGVLDIFGFEDFERNFSFEQFCINYANEQLQYFFNQHFIFKLEQEEY  
 QGEGITWHNIGYTDNVGCIHLISKKPTGLFYLLDEESNFPHATSQTLLAKFKQHEDNKYFLGTPVMEPA  
 FIIQHFAGKVYQIKDFREKNMDYMRPDI VALLRGS DSSYVRELIGMDPVAVFRWAVLRAAIRAMAVLRE  
 AGRLRAERA EKAAGMSSPGAQSHPEELPRGASTPSEKLYRDLHNQMIKSIKGLPWQGEDPRSLLSRL  
 QKPRAFILKSKGIKQKIIPKNLLDSKSLKLIISMTLHRTTKSLLHLHKKKPPSISAQFQTSLNKLE  
 ALGKAEPFFIRCIRSNAEKELCFDDELVLQQLRYTGMLLETVRIRRSYGSAKYTFQDFTEQFQVLLPKDA  
 QPCREVI STLLEKMKIDKRNYQIGTKVFLKETERQALQETLHREVVRKILLLSWFRMVLERRHFLQMK  
 RAAVTIQACWRSYRVRRALERTQAAVYLQASWRGYWQRKLYRHQKQSIIRLQSLCRGHLQRKFSQMISE  
 KQKAEKEREALAAARAGAEEGGQQAAGGQVAEQGPEPAEDGGH LASEPEVQPSDRSPLEHSSPEKEA  
 PSPEKTLPPQKTVAAESHEKVPSSREKRESRRQRGLEHVKFQNKHIQSCKEESALREPSRRVTQEQGVSL  
 LEDKKE SREDETL L VVE TEAENTSQKQPT EQPQAMAVGVSEETEKTLP S GSPRPGQLERPTSLALDSRV  
 SPPAPGSAPETPEDKSKPCGSPRVQEKPDSPGGSTQIQRYLDAERLASAVELWRGKLVAAASPSAML SQ  
 SLDLSDRHRTGAALTPTEERTSFSTSDVSKLLPSLAKAQPAEETD GERSAKKPAVQKKKPGDASSLP  
 DAGLSPGSQVDSKSTFKRLFLHKTKDKKYSLEGAELENAVSGHVLEATTMKGLEAPSGQQRHRAAGE  
 KRTKEPGGKGNRNKVIKIGITVSEKWRESVFRQITNANELKYLDEFLLNKINDLRSQKTPIESLFI EAT  
 EKFRSNIKTMYSVPNGKIHVGYKDLMENYQIVVSNLATERGQKDTNLVNLVQSLDEFTRGYTKNDFEP  
 VKQSKAQKKRQERAVQEHNHVFASYQVSI PQSCEQCLSYIWLMDKALLCSVCKMTCHKKCVHKIQSH  
 CSYTYGRKGEPGVEPHFGVCVDSLTSKASVPIVLEKLEHVEMHGLYTEGLYRKS GAANRTREL RQAL  
 QTDPAAVKLENFPIHAITGVLKQWLRELPEPLMTFAQYGDFLRAVELPEKQEQLAAIYAVLEHLPEANHN  
 SLERLIFHLVKVALL EDVNRMSPGALAIIFAPCLLRCPDNSDPLTSMKDV LKITT CVEMLIKEQMRKYK  
 KMEEISQLEAAESIAFRRLSLLRQNPWPLKLGFS SPYEGVLNKS PKTRDIQE EELVLEEEAAGGDED  
 REKEILIERIQSIKEEKEDITYRLELDP RGSDEENLDSETSASTESLLEERAGRGASEGQY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<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_001130065.2</a></u>
<b>RefSeq ORF:</b>	6069 bp
<b>Locus ID:</b>	4650
<b>Cytogenetics:</b>	19p13.11
<b>MW:</b>	229 kDa
<b>Gene Summary:</b>	This gene encodes a member of the myosin family of actin-based molecular motor heavy chain proteins. The protein represents an unconventional myosin; it should not be confused with the conventional non-muscle myosin-9 (MYH9). The protein has four IQ motifs located in the neck domain that bind calmodulin, which serves as a light chain. The protein complex has a single-headed structure and exhibits processive movement on actin filaments toward the minus-end. The protein also has rho-GTPase activity. Polymorphisms in this gene are associated with celiac disease and ulcerative colitis susceptibility. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]