

Product datasheet for **SC318603**

Myosin IIIB (MYO3B) (NM_138995) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Myosin IIIB (MYO3B) (NM_138995) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MYO3B |
| Vector: | <u>pCMV6 series</u> |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_138995, the custom clone sequence may differ by one or more nucleotides |

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ATGAAACATCTGTATGGATTATTTCACTATAATCCTATGATGCTTGGACTTGAATCACTT
CCAGATCCCACAGACACCTGGGAAATTATAGAGACCATTGGTAAAGGCACCTATGGCAA
GTCTACAAGGTAACAAAGAGAGATGGGAGCCTGGCTGCAGTGAATACTTGGATCCA
GTCAGTGATATGGATGAAGAAATGAGGCAGAATACAACATTTTGCAGTTCCTTCCTAAT
CATCCCAATGTTGTAAAGTTTTATGGGATGTTTTACAAAGCGGATCACTGTGTAGGGGA
CAGCTGTGGCTGGTCTGGAGCTGTGTAATGGGGGCTCAGTCACTGAGCTTGTCAAAGGT
CTACTCAGATGTGGCCAGCGGTTGGATGAAGCAATGATCTCATACATCTTGTACGGGCC
CTTTGGCCCTTACGATTTGCACAACAACCGAATCATCCACCGTGATGTGAAGGGGAAT
AACATTCTTCTGACAACAGAAGGAGGTTAAGCTCGTTGACTTTGGTGTTCAGCTCAA
CTCACCAGTACACGTCTGCGGAGAAACACATCTGTTGGCACCCCATCTGGATGGCCCT
GAGGTCATTGCCTGTGAGCAGCAGTATGACTCTTCTATGACGCTCGCTGTGACGTCTGG
TCCTTGGGGATCACAGCTATTGAACTGGGGGATGGAGACCCTCCCTCTTTGACATGCAT
CCTGTGAAAACACTCTTTAAGATTCCAAGAAATCTCCACCTACTTTACTTCATCCAGAA
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AATCAGACCTTGAGAGAGAAAATTTCTACAAGTCAACTCCCTGGTGAAGCCTTTGGGAAC
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CTTCATCACAAAAGAAGCTTTCTGATTTCACTTCTGAGGAAAAACCTCCTAGGTAC
ATAGCTGATGAACTGGAAGGGTATGCACGACATAACTTCCAAGGAGTCTTACAGAAGA
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TCAGTGTACAGAATTTGGCTGGGATTTGAATATTGGGAACATTGAGTTCGAGCTATT

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TCCTCTCAACATCAGACTGATAAAAGTGAGGTGCCAATGCTGAAGCTTTGCAAAATGCT
GCCTCTGTCTGTGCATTAGCCCTGAAGAGCTCCAGGAGGCCCTCACCTCCCCTGTGTG
GTCACCCGGGGCGAGACCATCATCCGTGCCAACACTGTAGACAGGGCTGCGGACGTTTGA
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GACCTGCTCTCCAAAATGGTGGTTGGACAGCCCACTTTGTGCGCTGCATTAACCCAAT
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GGGATTCTGGAGACAGTCAAGTCCGCCAGGGCTATTTCCACCGCATCCTTTTTGAA
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AAAGAGAGCTGTGTGGCTATCTTGGAAAAGTCCAGATTAGTCACTGGGTGCTGGGAAAA
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AAAAAGGTCAGAGAGAAGAGAGAGAAGGGAGCCATTGCCATCCAGTCAGCCTGGAGAGGA
TATGATGCTCGGAGGAAATTTAAGAAAATAAGCAACAGAAGGAATGAGTCTGCTCAT
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ACGAGGGGAAGTGCCGAGGTTCAAGACTGCAGCGAGCCTGGTGACCATAAAGTTCTCAGG
GGCTCTGTACATCGTAGGAGCCATTCAAGCAGAATCCAACAATGGCCGTACACAGACT
TCAAGCAACTCTCTGCTGTCACAGAGAAAAATGGGCATTCAAGCCAGAGTTCTCCA
AAAGGTGCGATATCTTGCAGGACATGCAAACAAGCACTCGGTTTCTGGGACTGATTTG
CTGTCTTCTCGGATATGCCATCCTGCTCCAGATCAGCAAGGATTGAGTCTCTGGGAGCC
CCTCAAAAGCCTGGTTTCAGAAAATGGTCTTGCACAGAAGCATCGAACACCTCGCCGACGA
TGTCAGCAGCCAAAATGCTGAGTAGCCCTGAGGACACCATGTAATAACCAAGTAAAT
GGAACCTAGAAATCAAGGGAGCAAGGGAAGCAAGAAAACCTGGCCAAATCAAAGTA
CTTGATGGGGAAGATGAATATTACAAATCTCTGTACCAGTGGACTGTATCCCTGAGGAG
AACAACTCAGCCACCCTTCTTTTTTCTTATCCTCAAAGGAGACTCTTTTGCTCAA
CAT
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_138995
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_138995.2](#), [NP_620482.2](#)

RefSeq Size: 5529 bp

RefSeq ORF: 4026 bp

Locus ID: 140469

UniProt ID: [Q8WXR4](#)

Cytogenetics: 2q31.1

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: This gene encodes one of the class III myosins. Myosins are ATPases, activated by actin, that move along actin filaments in the cell. This class of myosins are characterized by an amino-terminal kinase domain and shown to be present in photoreceptors. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]

Transcript Variant: This variant (2) encodes the longer isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.