

Product datasheet for **SC315329**

Myosin IIIB (MYO3B) (NM_138995) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin IIIB (MYO3B) (NM_138995) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myosin IIIB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_138995 edited

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CATCAATGAAACATCTGTATGGATTATTTCACTATAATCCTATGATGCTTGGACTTGAAT
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 AAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_138995 unedited</p> <pre>CTACACATTGTACACGACTTACTATAGGGCGGCTCGCGAGGATATGCACGAGGCACTCAA TGAACATCTGTACGGTACTTATTTCACTATAATCCTATGATGCTTGGACTTGAATCACT TCCAGATCCCACAGACACCTGGGAAATTATAGAGACCATTGGTAAAGGCACCTATGGCAA AGTCTACAAGGTAACATAACAAGAGAGATGGGAGCCTGGCTGCAGTGAAAAATCTGGATCC AGTCAGTGATATGGATGAAGAAAATTGAGGCAGAATACAACATTTTGCAGTTCCTTCCTAA TCATCCCAATGTTGTAAGTTTTATGGGATGTTTTACAAAAGCGGATCACTGTGTAGGGGG ACAGCTGTGGCTGGTCTGGAGCTGTGTAATGGGGGCTCAGTCACTGAGCTTGTCAAAGG TCTACTCAGATGTGGCCAGCGGTTGGATGAAGCAATGATCTCATACATCTTGTACGGGGC CCTCTTGGGCCTTCAGCATTTGCACAACAACCGAATCATCCACCGTGATGTGAAGGGGAA TAACATTCTTCTGACAACAGAAGGAGGAGTTAAGCTCGTTGACTTTGGTGTTCAGCTCA ACTCACCAGTACACGTCTGCGGAGAAAACACATCTGTTGGCACCCCGTTCTGGATGGCCCC TGAGGTCAATGCCTGTGAGCAGCAGTATGACTCTTCTATGACGCTCGCTGTGACGTCTG GTCCTTGGGGATCACAGCTATTGAACTGGGGGATGGAGACCCTCCCTCTTTGACATGCAT CCTGTGAAAACACTCTTTAGATTCCAAGAAATCTCCACCTACTTTACTCATCAGAAAATG GTGTGAGATCACCACCTTATTTACAGTGTCTTATTAAGATTTGAAGGCGACCTCCG TCA</pre>
3' Read Nucleotide Sequence:	<p>>Forward primer walk for NM_138995 unedited</p> <pre>CCCGGGGATTTGCCATCCTGCTCCATAAGCAGGNATTGATCTCTGGGGAGCCCCCTCAA AACCTGGTTCAGAAAAGGCTTTCACAGAAAGCATCGAACACCTCGCCGACGATGTCAGCA GCCCAAAATGCTGAGTAGCCCTGAGGACACCATGTAATAAACCAGTTAAATGGAATCT AGAATATCAAGGGAGCAAGAGGAAGCCAAGAAAATTGGCCAAATCAAAGTACTTGATGG GGAAGATGAATATTACAAATCTCTGTCACCAGTGGACTGTATCCCTGAGGAGAACAACCTC AGCCCACCCTTCTTTTTTCTTCATCCTCAAAGGAGACTCTTTTGTCAACATTAAT TGTGCTTCTCAACCCTAAATCTGTCCAGAGTAGGAACATTCATGGTAATCGACTGTCTGT CATTGCGTAAGAAAGCACTGATATGGGGTCAGCTTCTTTGGACATATGGTCCATGCCTGA ACCTTACTGAACCACTTGCAGATTCCAAAACATCTTATCCTATCCTCTACCACTCTCCCA CATGTGTTGTGCGGCCTGAGCTGGGCGCTGCCTTCTTTCTCATCCCTGGGGCCCTGTGG GACACTGAGAACACCTTTACAATAGTTTAAACAGTCATTATGCCCCAGTGTCTAGGAA GATAACAGCCAGTCTCACCCAGTCTAATCATGGACCCTGATAATATTGCTTGATTTTTTC CTATCAAGTTACTTTTCAATCCATTGAGAACTGCCCCAGTGGAGACCCAGGAGTTCCCTT TCCTGCACTCTTCTCCATCCTCCACCTTTGCTGGGCTTTTCTATCACTCCCACCTCCCC CCAGATCAGGGCTCCATTGCTGAGTGCC</pre>
Restriction Sites:	Please inquire
ACCN:	NM_138995
Insert Size:	4800 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_138995.1](#), [NP_620482.1](#)

RefSeq Size: 5560 bp

RefSeq ORF: 3837 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.