

Product datasheet for **SC316082**

Myosin IIIB (MYO3B) (NM_001083615) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin IIIB (MYO3B) (NM_001083615) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYO3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316082 representing NM_001083615. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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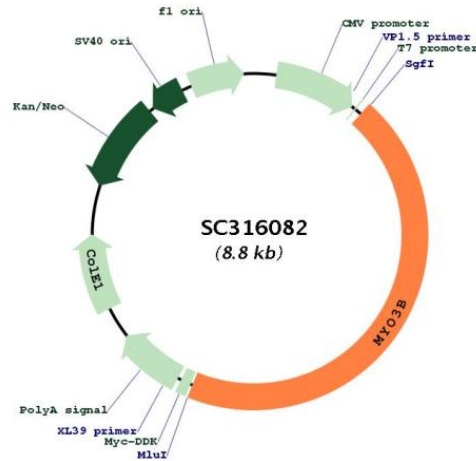
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Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: NM_001083615

Insert Size: 3945 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: 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_001083615.3](#)

RefSeq Size: 6149 bp

RefSeq ORF: 3945 bp

Locus ID: 140469

UniProt ID: [Q8WXR4](#)

Cytogenetics: 2q31.1

Protein Families: Druggable Genome, Protein Kinase

MW: 148.6 kDa

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 (1) lacks an alternate in-frame exon in the coding region, compared to variant 2. This results in a shorter protein (isoform 1), compared to 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.