

## Product datasheet for **RG216078**

### Myosin IIIB (MYO3B) (NM\_001083615) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin IIIB (MYO3B) (NM_001083615) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MYO3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216078 representing NM_001083615 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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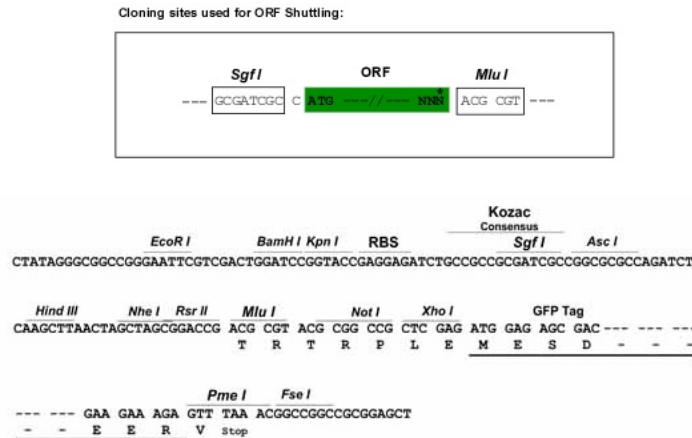
**Protein Sequence:** >RG216078 representing NM\_001083615  
 Red=Cloning site Green=Tags(s)

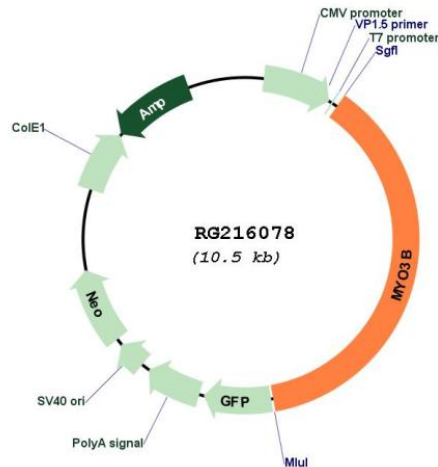
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 SKRKPRKLGQIKVLDGEDEYYKSLSPVDCIPEENNSAHP SFFSSSSKGD SFAQH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001083615

**ORF Size:** 3942 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001083615.1](#), [NP\\_001077084.1](#)

**RefSeq Size:** 5448 bp

**RefSeq ORF:** 3945 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]