

Product datasheet for SC303943

MYO1B (NM_012223) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO1B (NM_012223) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYO1B
Synonyms:	MMI-alpha; MMIa; MYH-1c; myr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303943 representing NM_012223. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
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CACAGCTGCTTCAGGATCCAGCATTATGCTGGAAAGGTGCTGTACCAGGTGGAAGGATTCGTTGACAAA
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 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012223
- Insert Size:** 3237 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_012223.2](#)

RefSeq Size: 4939 bp

RefSeq ORF: 3237 bp

Locus ID: 4430

UniProt ID: [O43795](#)

Cytogenetics: 2q32.3

Domains: myosin_head

MW: 125 kDa

Gene Summary: Motor protein that may participate in process critical to neuronal development and function such as cell migration, neurite outgrowth and vesicular transport.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks two in-frame exons in the 3' coding region, compared to variant 1. The resulting isoform (2) is shorter than isoform 1.