

Product datasheet for **SC309718**

MYO9B (NM_004145) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO9B (NM_004145) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYO9B
Synonyms:	CELIAC4; MYR5
Vector:	<u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for NM_004145, the custom clone sequence may differ by one or more nucleotides

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ATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGCGCCTACACCTGCAC
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CAGGGCGCCCTGGAGCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAGGTAC
TCGGATCCCCAACGTA CTGCCTGCCCCCGCCTCGGGCCAGACCAATGGCTGA
    
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Restriction Sites:

Please inquire

ACCN:

NM_004145

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_004145.2](#), [NP_004136.2](#)

RefSeq Size: 7488 bp

RefSeq ORF: 6474 bp

Locus ID: 4650

UniProt ID: [Q13459](#)

Cytogenetics: 19p13.11

Gene Summary: This gene encodes a member of the myosin family of actin-based molecular motor heavy chain proteins. The protein represents an unconventional myosin; it should not be confused with the conventional non-muscle myosin-9 (MYH9). The protein has four IQ motifs located in the neck domain that bind calmodulin, which serves as a light chain. The protein complex has a single-headed structure and exhibits processive movement on actin filaments toward the minus-end. The protein also has rho-GTPase activity. Polymorphisms in this gene are associated with celiac disease and ulcerative colitis susceptibility. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (1) encodes the longer isoform (1).