

Product datasheet for **SC323312**

Myosin VIIa (MYO7A) (NM_001127180) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin VIIa (MYO7A) (NM_001127180) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myosin VIIa
Synonyms:	DFNA11; DFNB2; MYOVIIA; MYU7A; NSRD2; USH1B
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001127180, the custom clone sequence may differ by one or more nucleotides

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CTCTGCGAGAGCTCACTGGGCTACAAGATGGATGACCTCCTGACTTCTACATTAGCCAG
ATGCTCACAGCCATGAGCAAACAGCGGGGCTCCAGGAGCGGCAAG

Restriction Sites:	Please inquire
ACCN:	NM_001127180
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_001127180.1, NP_001120652.1

RefSeq Size: 7339 bp

RefSeq ORF: 6528 bp

Locus ID: 4647

UniProt ID: Q13402

Cytogenetics: 11q13.5

Gene Summary: This gene is a member of the myosin gene family. Myosins are mechanochemical proteins characterized by the presence of a motor domain, an actin-binding domain, a neck domain that interacts with other proteins, and a tail domain that serves as an anchor. This gene encodes an unconventional myosin with a very short tail. Defects in this gene are associated with the mouse shaker-1 phenotype and the human Usher syndrome 1B which are characterized by deafness, reduced vestibular function, and (in human) retinal degeneration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) lacks an in-frame segment in the coding region, compared to variant 1. It encodes isoform 2 which is shorter than isoform 1.