

Product datasheet for **RC226361**

Myosin VIIa (MYO7A) (NM_001127179) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myosin VIIa (MYO7A) (NM_001127179) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYO7A
Synonyms:	DFNA11; DFNB2; MYOVIIA; MYU7A; NSRD2; USH1B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226361 representing NM_001127179 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC226361 representing NM_001127179
 Red=Cloning site Green=Tags(s)

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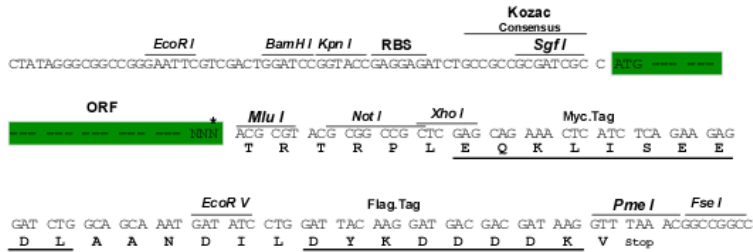
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Restriction Sites:

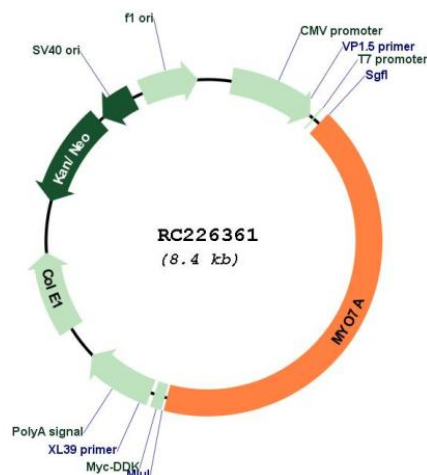
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001127179

ORF Size: 3534 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_001127179.2](#), [NP_001120651.2](#)

RefSeq Size: 4079 bp

RefSeq ORF: 3537 bp

Locus ID: 4647

Cytogenetics: 11q13.5

MW: 135.8 kDa

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]