

## Product datasheet for RC235356

### MYH10 (NM\_001256012) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MYH10 (NM_001256012) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYH10
Synonyms:	NMMHC-IIB; NMMHCB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235356 representing NM_001256012 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:**

>RC235356 representing NM\_001256012  
 Red=Cloning site Green=Tags(s)

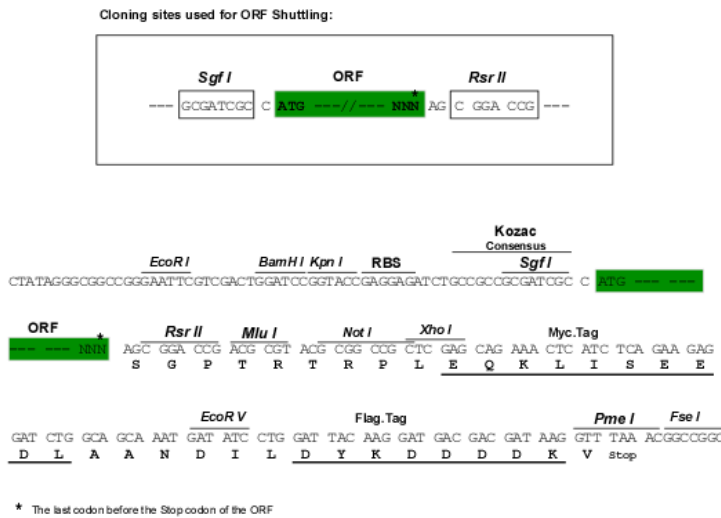
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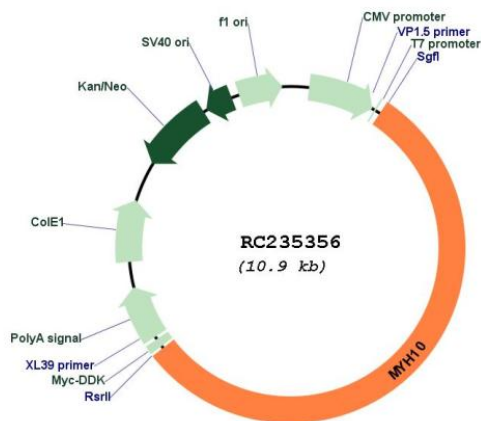
**Restriction Sites:**

SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001256012

ORF Size: 6021 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001256012.1, NP_001242941.1</u>
<b>RefSeq Size:</b>	7778 bp
<b>RefSeq ORF:</b>	6024 bp
<b>Locus ID:</b>	4628
<b>UniProt ID:</b>	<u>P35580</u>
<b>Cytogenetics:</b>	17p13.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Regulation of actin cytoskeleton, Tight junction, Viral myocarditis
<b>MW:</b>	233 kDa
<b>Gene Summary:</b>	This gene encodes a member of the myosin superfamily. The protein represents a conventional non-muscle myosin; it should not be confused with the unconventional myosin-10 (MYO10). Myosins are actin-dependent motor proteins with diverse functions including regulation of cytokinesis, cell motility, and cell polarity. Mutations in this gene have been associated with May-Hegglin anomaly and developmental defects in brain and heart. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]