

## Product datasheet for **RC239829**

### **MYO1D (NM\_001303279) Human Tagged ORF Clone**

#### **Product data:**

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                         |
| Product Name:      | MYO1D (NM_001303279) Human Tagged ORF Clone |
| Tag:               | Myc-DDK                                     |
| Symbol:            | MYO1D                                       |
| Synonyms:          | myr4; PPP1R108                              |
| Vector:            | pCMV6-Entry (PS100001)                      |
| E. coli Selection: | Kanamycin (25 ug/mL)                        |
| Cell Selection:    | Neomycin                                    |



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**ORF Nucleotide Sequence:**

>RC239829 representing NM\_001303279  
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**GCGATCGCC**

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**Protein Sequence:** >RC239829 representing NM\_001303279  
Red=Cloning site Green=Tags(s)

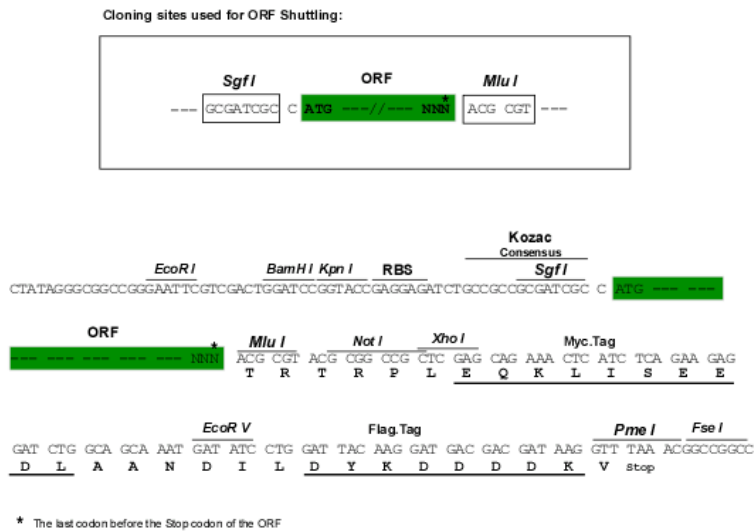
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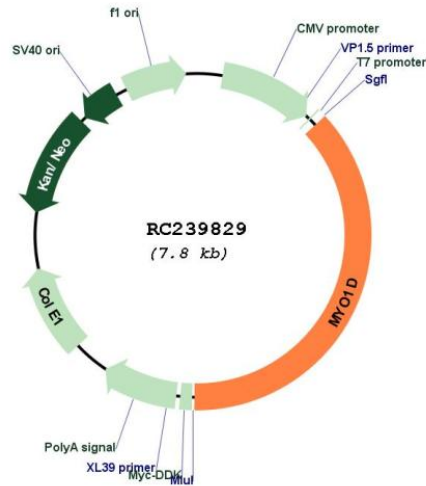
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**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001303279

**ORF Size:** 2883 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\\_001303279.2](#)

**RefSeq Size:** 3537 bp

**RefSeq ORF:** 2886 bp

**Locus ID:** 4642

**UniProt ID:** [O94832](#)

**Cytogenetics:** 17q11.2

**MW:** 111.7 kDa

**Gene Summary:** Unconventional myosin that functions as actin-based motor protein with ATPase activity (By similarity). Plays a role in endosomal protein trafficking, and especially in the transfer of cargo proteins from early to recycling endosomes (By similarity). Required for normal planar cell polarity in ciliated tracheal cells, for normal rotational polarity of cilia, and for coordinated, unidirectional ciliary movement in the trachea. Required for normal, polarized cilia organization in brain ependymal epithelial cells (By similarity).[UniProtKB/Swiss-Prot Function]