

## Product datasheet for **RG240080**

### MYO6 (NM\_001300899) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MYO6 (NM_001300899) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MYO6
Synonyms:	DFNA22; DFNB37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240080 representing NM_001300899. Blue=ORF Red=Cloning site Green=Tag(s)

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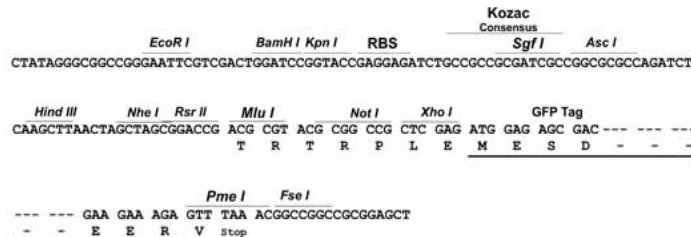
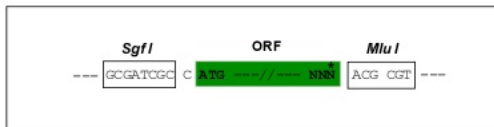
Protein Sequence: >Peptide sequence encoded by RG240080  
 Blue=ORF Red=Cloning site Green=Tag(s)

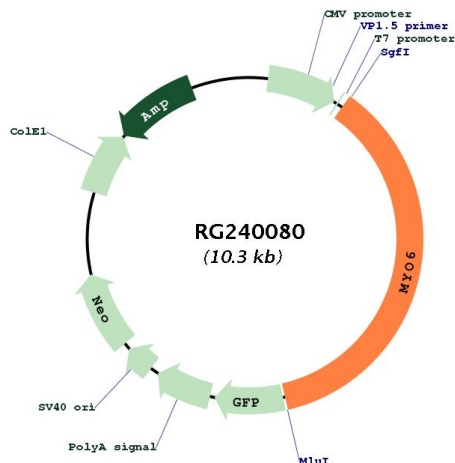
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Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_001300899

**ORF Size:** 3786 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).

**RefSeq:** [NM\\_001300899.2](#)

**RefSeq Size:** 8609 bp

**RefSeq ORF:** 3789 bp

**Locus ID:** 4646

**UniProt ID:** [Q9UM54](#)

**Cytogenetics:** 6q14.1

**MW:** 146.5 kDa

**Gene Summary:**

This gene encodes a reverse-direction motor protein that moves toward the minus end of actin filaments and plays a role in intracellular vesicle and organelle transport. The protein consists of a motor domain containing an ATP- and an actin-binding site and a globular tail which interacts with other proteins. This protein maintains the structural integrity of inner ear hair cells and mutations in this gene cause non-syndromic autosomal dominant and recessive hearing loss. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]