

## Product datasheet for **SC327261**

### MYO19 (NM\_001163735) Human Untagged Clone

#### Product data:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product Name:             | MYO19 (NM_001163735) Human Untagged Clone                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Tag:                      | Tag Free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Symbol:                   | MYO19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Synonyms:                 | MYOHD1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Mammalian Cell Selection: | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Restriction Sites:        | Please inquire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ACCN:                     | NM_001163735                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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:    | <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> |
| RefSeq:                   | <u><a href="#">NM_001163735.1</a></u> , <u><a href="#">NP_001157207.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RefSeq Size:              | 4418 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



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RefSeq ORF: 2913 bp

Locus ID: 80179

UniProt ID: [Q96H55](#)

Cytogenetics: 17q12

**Gene Summary:** Actin-based motor molecule with ATPase activity that localizes to the mitochondrion outer membrane (PubMed:19932026, PubMed:23568824, PubMed:25447992). Motor protein that moves towards the plus-end of actin filaments (By similarity). Required for mitochondrial inheritance during mitosis (PubMed:25447992). May be involved in mitochondrial transport or positioning (PubMed:23568824).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) represents the longest transcript and encodes the longest isoform (2).