

## Product datasheet for **RC239166**

### Axotrophin (MARCH7) (NM\_001282806) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Axotrophin (MARCH7) (NM_001282806) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MARCF7
Synonyms:	AXO; AXOT; MARCH-VII; MARCH7; RNF177
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RC239166 representing NM\_001282806  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGTCTAAACCTTCAAGGATCCAAGAAGAATTTCTGTTCAACCTTCCAGCTCCTTAAGTGCTAGGA  
 TGATGTCTGGAAGCAGAGGAAGTAGTTTAAATGATACCTATCACTCAAGAGACTTTCATTTAGATTGGA  
 TTCTGAATATCAGTCTACATCAGCATCAGCATCTGCGTCAACATTTCAATCTGCATGGTATAGTGAATCT  
 GAGATAACTCAGGGAGCACGCTCAAGATCGCAGAACCAGCAACGGGATCATGATTCAAAAAGACCTAAAC  
 TTTCTGTACAACTGTACTACCTCAGCTGGGAGAAATGTTGAAATGGTTTAAACACATTATCAGATGT  
 TCAAGACAGAGTTCCTTCATATTCACAAGGAGCAAGACCAAAAAGAAAACCAATGAGCACTTTACAGTTG  
 AATACATCATCCACAAACCACCAATTGCCTTCTGAACATCAGACCATACTAAGTTCTAGGGACTCCAGAA  
 ATCTTTAAGATCAAATTTTTCTCAAGAGAATCAGAATCTCCCGAAGCAATACGCAGCCTGGATTTTC  
 TTACAGTTCAAGTAGAGATGAAGCCCCAATCATAAGCAATTCAGAAAGGGTTGTTTCATCTCAAAGACCA  
 TTTCAAGAATCTTCTGACAATGAAGGTAGGCGGACAACGAGGAGATTGCTGTCCAGCATAGCTTCTAGCA  
 TGTCATCTACTTTTTTTTACGAAGATCTAGTCAGGATTCCTTGAATACAAGATCATTGAATTTCTGAAAA  
 TTCTTACGTTTCTCCAAGAACTTTCAGAGCTTTCAGTCCCGTAGTAATGTACCATCAGCTTCTGAAGTT  
 CCCGATAATAGGGCATCTGAAGCTTCTCAGGGATTTTCGATTTCTTAGGCGAAGATGGGGTTTGTCTCTC  
 TTAGCCACAATCATAGCTCTGAGTCAGATTCAGAAAATTTTAAACCAAGAACTGAAGGTAGAAAATACAGG  
 ACCATGGTTATCTTCTCACTTAGAAAATAGATGCACACCTTTGTTCTCTAGAAGGAGCGGAGAGGGGAAGA  
 GATGAATCTTCAAGGATACCTACCTCTGATACATCATCTAGATCTCATATTTTTAGAAGAGAATCAAATG  
 AAGTGGTTACCTTGAAGCACAGAATGATCCTCTTGGAGCTGCTGCCAACAGACCACAAGCATCTGCAGC  
 ATCAAGCAGTGCCACAACAGGTGGCTCTACATCAGATTGCGCTCAAGGTGGAAGAAATACAGGAATATCA  
 GGGATTCTTCTGGTTCCCTTATTCCGGTTTGCAGTCCCTCCAGCACTGGGAGTAATTTGACCGACAATG  
 TCATGATCACAGTAGATATTATTCCTTCAGGTTGGAATTCAGCTGATGGTAAAAGTGATAAAAATAAAAG  
 TGCGCCTTCAAGAGATCCAGAAAGATTGCAGAAAATAAAAGAGAGCCTCCTTTTAGAGGACTCAGAAAGAA  
 GAAGAAGGTGACTTATGTAGAATTTGTCAAATGGCAGCTGCATCATCTAATTTGCTGATAGAGCCAT  
 GCAAGTGACAGGAAGTTTGCAGTATGTCCACCAAGACTGTATGAAAAAGTGGTTACAGGCCAAAATTA  
 CTCTGGTTCTTTCATTAGAAGCTGTAAACACCTGTGAATATGTAAGAGAAGTTGGAGCTTAACCTGGAG  
 GATTTTGTATTCATGAAGTACATAGAGCTCATGCAAATGAACAAGCTGAGTATGAGTTTATCAGCTCTG  
 GTCTCTACCTAGTGGTGTATTGCACCTGTGCGAACAAGCTTTTCTGATATGATGGGAAATACAATGA  
 ACCAAGCACACGTGTCCGACTTCAGAGGATGATCCGAAGAAGACGGAGACCATAACAGGACATTTGATA  
 TTGCCTAACTTCATA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239166 representing NM\_001282806  
 Red=Cloning site Green=Tags(s)

MESKPSRIPRRIISVQPSSSL SARMMSGSRGSSLNDTYHSRDSSFRLDSEYQST SASASAPFQSAWYSES  
 EITQGARSRSQNRDHDHDKRPKLSCTNCTTSAGRNVGNLNTLSDVQDRVPSYSQGARPKNMSMSTLQL  
 NTSSSTNHQLPSEHQITILSSRDSRNSLRSNFSSRESESSRNTQPGFSYSSSRDEAPIISNSERVVSSQRP  
 FQESSDNEGRRTTRRLLSRIASSMSSTFFSRRSSQDSLNTSLNSENSYVSPRIL TASQSRSNVPSASEV  
 PDNRASEASQGFRLRRRWGLSSL SHNHSSESDSENFNQSEGRNTGPWLSSSLRNRCTPLFSRRRREGR  
 DESSRIPTSDTSSRSHIFRRESNEVVHLEAQNDPLGAAANRPQASAASSATTGGSTSDSAQGGRRNTGIS  
 GILPGSLFRFAVPPALGSLNLDNMIVTDIIPSGWNSADGKSDKTKSAPSRDPERLQKIKESLLEDSEE  
 EEGDLCRICQMAAASSNLLIEPCKCTGSLQYVHQDCMKKWLQAKINSGSLEAVTTCELCKEKLELNLE  
 DFDIHELHRAHANEQAEYEFISSGLYLVLHLCEQSFSDMMGNTNEPSTRVRLQRMIPKKTETITGHLI  
 LPNFI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

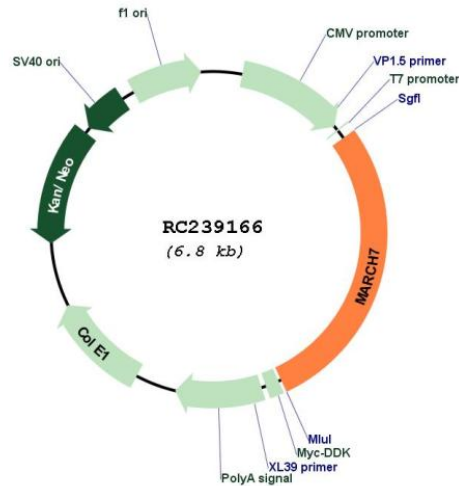
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001282806

**ORF Size:** 1905 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\\_001282806.2](#)

RefSeq Size: 3319 bp

RefSeq ORF: 1908 bp

Locus ID: 64844

UniProt ID: [Q9H992](#)

Cytogenetics: 2q24.2

MW: 70.6 kDa

**Gene Summary:** MARCH7 is a member of the MARCH family of membrane-bound E3 ubiquitin ligases (EC 6.3.2.19). MARCH proteins add ubiquitin (see MIM 191339) to target lysines in substrate proteins, thereby signaling their vesicular transport between membrane compartments (Bartee et al., 2004 [PubMed 14722266]).[supplied by OMIM, Mar 2010]