

## Product datasheet for **RC239264**

### Axotrophin (MARCH7) (NM\_001282807) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Axotrophin (MARCH7) (NM_001282807) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MARCHF7
Synonyms:	AXO; AXOT; MARCH-VII; MARCH7; RNF177
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RC239264 representing NM\_001282807  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATTGGCAACTATGATCATCTTATGTCTTTAGTAACATCTACATCAGCATCAGCATCTGCGTCACCAT  
TTCAATCTGCATGGTATAGTGAATCTGAGATAACTCAGGGAGCAGCTCAAGATCGCAGAACCAGCAACG  
GGATCATGATTCAAAAAGACCTAACTTTCCTGTACAACTGTACTACCTCAGCTGGGAGAAATGTTGGA  
AATGGTTAAACACATTATCAGATTCATCTTGGAGGCATAGTCAAGTTCCTAGATCTTCAATGGTAC  
TTGGATCATTTGGAACAGACTTAATGAGAGAGAGGAGAGATTTGGAGAGAAGAACAGATTCCTCTATTAG  
TAATCTTATGGATTATAGTCACCGAAGTGGTATTTCACTTTCATCATATGTTCAAGACAGAGTTCCT  
TCATATTCACAAGGAGCAAGACCAAAAAGAAAACCAATGAGCACTTACAGTTGAATACATCATCCACAA  
ACCACCAATTGCCTTCTGAACATCAGACCATACTAAGTTCAGGGACTCCAGAAATCTTTAAGATCAAA  
TTTTCTTCAAGAGAATCAGAATCTTCCGAAGCAATACGCAGCCTGGATTTTCTTACAGTTCAAGTAGA  
GATGAAGCCCAATCATAAGCAATTCAGAAAGGGTTGTTTCATCTCAAAGACCATTTCAAGAATCTCTG  
ACAATGAAGGTAGGCGGACAACGAGGAGATTGCTGTCACGCATAGCTTCTAGCATGTCATCTACTTTTT  
TTCACGAAGATCTAGTCAGGATTCCTTGAATACAAGATCATTGAATTCGAAAATCTTACGTTTCTCCA  
AGAATCTTGACAGCTTCAGTCCCGTAGTAATGTACCATCAGCTTCTGAAGTTCGGATAATAGGGCAT  
CTGAAGCTTCTCAGGGATTTGATTTCTTAGGCGAAGATGGGGTTTGTCTCTTAGCCACAATCATAG  
CTCTGAGTCAGATTCAGAAAATTTAACAAGAATCTGAAGGTAGAAATACAGGACCATGGTTATCTTCC  
TCACTTAGAAAATAGATGCACACCTTTGTCTCTAGAAGGAGCGAGAGGGAAGAGATGAATCTTCAAGGA  
TACCTACCTCTGATACATCATCTAGATCTCATATTTTTAGAAGAGAATCAAATGAAGTGGTTCACCTTGA  
AGCACAGAATGATCCTCTTGGAGCTGCTGCAACAGACCACAAGCATCTGCAGCATCAAGCAGTGCCACA  
ACAGGTGGCTCTACATCAGATTCGGCTCAAGGTGGAAGAAATACAGGAATACAGGGATTCTTCTGGTT  
CCTTATTCGGTTTGCAGTCCCTCCAGCACTTGGGAGTAAATTTGACCGACAATGTCATGATCACAGTAGA  
TATTATTCCTCAGGTTGGAATTCAGCTGATGGTAAAAGTGATAAACTAAAAGTGGCCTTCAAGAGAT  
CCAGAAAGATTGCAGAAAATAAAGAGAGCCTCCTTTTAGAGGACTCAGAAAGAAGAAGGTGACTTAT  
GTAGAATTTGTCAAATGGCAGCTGCATCATCTAATTTGCTGATAGAGCCATGCAAGTGCACAGGAAG  
TTTGCAGTATGTCACCAAGACTGTATGAAAAAGTGGTTACAGGCCAAAATTAACCTGGGATTTTGTATTCATG  
AACTACATAGAGCTCATGCAATGAACAAGCTGAGTATGAGTTTATCAGCTCTGGTCTCTACCTAGTGGT  
GTTATTGCACTTGTGCGAACAAAGCTTTTCTGATATGATGGGAAATACAATGAACCAAGCACACGTGTC  
CGATTTATTAACCTTGAAGAAGCTTTCAGGCACATATGGAAGATCTCGAAACTTCAGAGGATGATTCCG  
AAGAAGACGGAGACCATAACAGGACATTTGATATTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239264 representing NM\_001282807  
 Red=Cloning site Green=Tags(s)

MIGNYDHLMSLVSTSTASASAPFQSAWYSESEITQGARSRSQNQRDHDHDKRPKLSCTNCTTSAGRNVG  
 NGLNLTSDSSWRHSQVPRSSSMVLGSFGTDLMRERRDLERRTDSSI SNLMDYSHRSGDFTTSSYVQDRVP  
 SYSQGARPKENMSTLQLNTSSTNHQLPSEHQITLSSRDSRNSLRSNFSSRESESSRSNTQPGFSYSSSR  
 DEAPIISNSERVVSSQRPFQESSDNEGRRTTRRLLSRIASSMSSTFFSRRSSQDSLNRSLNSENSYVSP  
 RILTASQSRSNVPSASEVPDNRASEASQGRFLRRRWGLSSL SHNHSESDSENFNQSEGRNTGPWLSS  
 SLRNRCTPLFSRRRREGREDESSRIPTSDTSSRSHIFRRESNEVHLEAQNDPLGAAANRPQASAASSAT  
 TGGSTSDSAQGGRNIGISGILPGSLFRFVPPALGNSLTDNVMITVDIIPSGWNSADGKSDKTKSAPSRD  
 PERLQKIKESLLEDSEEEEGDLCRICQMAAASSNLLIEPCKCTGSLQYVHQDCMKWLQAKINSGSSL  
 EAVTTCELCCKELNLEDFDIHELHRAHANEQAEYEFISSGLYL VVLLHLCEQSFSDMMGNTNEPSTRV  
 RFINLARTLQAHMEDLETSEDDSEEDGDHNRTFDIA

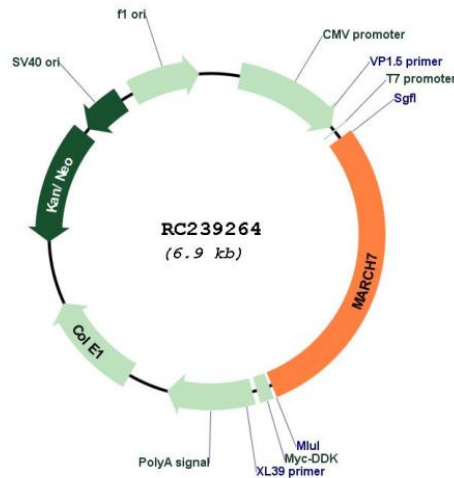
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001282807

**ORF Size:** 1998 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\\_001282807.2](#)

RefSeq Size: 3411 bp

RefSeq ORF: 2001 bp

Locus ID: 64844

UniProt ID: [Q9H992](#)

Cytogenetics: 2q24.2

MW: 74.2 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]