

## Product datasheet for **MR216006**

### **Armcx1 (NM\_001166379) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Armcx1 (NM_001166379) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Armcx1
Synonyms:	3010033I09Rik; ALEX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216006 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTCGCCACCCGGAAGCTGGATGTGTGGCTGCAGGCATGGTCATTGGGGCTGGTGCCTGCTACTGTG  
 TATACAGACTGACCTGGGAAAAGATGAGAATGAGAAGTTGTGGGATGAGGAAGAGGAGGAAGAGGAGGA  
 AGAGGAGGAAAAGTCTTGTAGTGACAAAAGTGAAGAAAGTAAAGACTAATGTTGGGGTAGGGGCGAGA  
 GGCAAACCTCAAGATGACTCAAAGTCCAAGTTGAGGTGAATGTGGGACCTGAGAATGGTCCAGGTGTA  
 AGAAAAGAGTGCACCCAGAATCCAGAGTGGGGTGGACTAGAGGCTAAGGCCAAGGCCCTTTTCAAGAC  
 TCTAAAGAACAGGCACGTGCAAAGGCAGGCAGAGGCATAAGGCTTCTAACATCTCTAGGAATAGGACC  
 CTGACATCAAGTTTGCCTTGCCAGGAGGCAGGGTGGAGGCTGCCACCCGGAAGGACTGGTTCTAGGG  
 CTAGGAACAGGACAAGTGGGAAAGTCAAGAGAAAACCGAAGCAAGAGCAACAAGGCTCCAGCCACAGC  
 ATGGCCTGTACGCAAGGGCAAGTTCAGCTTTCCCTATAAAAATTGATGATATTCTGAGCGCCCTGATCTT  
 CAAAAGGTCTGAACATCCTGGAGAGAACAATGACCCTTTTACTCAGGAAGTAGCACTGGTCACACTGG  
 GTAACAATGCAGCATATTCATTTAATCAAAACGCCATCCGTGAGCTGGGTGGAGTCCCCATTATTGCAAA  
 GCTGATAAAAACAAGAGACCCCATTTATTAGGAAAAGACTTACAATGCTCTTAATAACTTGAGCGTTAAT  
 TCTGAGAAATCAGGGCAAGATTAAGACTTATATCAGTCAAGTGTGTGACGATACCATGGTTTCCCGCTTG  
 ACTCAGCCGTCCAGATGGCTGGATTAAGACTCCTACCAACATGACTGTAACATACTACCAACATTT  
 GCTTTCTATTCTTTCCAGATTTCTTTGCTTTGTTATTCTGGGAAACCACTTCACCAAGATACAGACT  
 ATGAAACTGATTATAAATTTTACTGAAAACCCAGCCATGACAAGAGAGCTGGTCAGTTGTAAGTACCTT  
 CGGAATTGATTTCTGTTTAATAAAGAATGGGATAGAGAGATTCTTCTTAACATTCTTACCCTTTTGA  
 AAATATAAACGATAACATAAAAAGTGAAGGGCTTGCATCCTCCAGGAAGGAATTCAGCAGGAGCTCACTG  
 TTTTCTTATTTAAAGAGTCTGGAGTATGTGTGAAGAAAATCAAAGCATTAGCAAGCCATAAGGATCTGG  
 TGGTCAAAGTGAAGTTCTAAAAGTCTTAAACAAAATTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR216006 protein sequence  
 Red=Cloning site Green=Tags(s)

MGRTREAGCVAAGMVGAGACYVYRLTWGKDENEKLWDEEEEEEEEEKSCSDKTEKELKTNVGVGAR  
 GKPQDDSKSKVEVNVGPENGPVKKVHPESQSGGLEAKAKALFKLKEQARAKAGRGIRLPNISRNRT  
 LTSSLPCPGRRGGGCHPGRGTGSRARNRTSGKVKRKNRSKSNKAPATAWPVRKGF SFPYKIDDILSAPDL  
 QKVLNILERNDPFTQEVALVTLGNAAYSFNQNAIRELGGVPIIAKLIKTRDPIIREKTYNALNLSVN  
 SENQGIKTYISQVDDTMVCRLDASVQAGLRLLTNMTVTNHYQHLLSYSPDFDFALLFLGNHFTKIQT  
 MKLIINFTEPAMTRELVSCKVPSLISLFNKEWDREILLNILTLFENINDNIKSEGLASSRKEFSRSSL  
 FFLFKESGVCVKKIKALASHKDLVVKVVKLVTKL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001166379

**ORF Size:** 1368 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\\_001166379.1](#), [NP\\_001159851.1](#)

**RefSeq Size:** 2306 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 78248

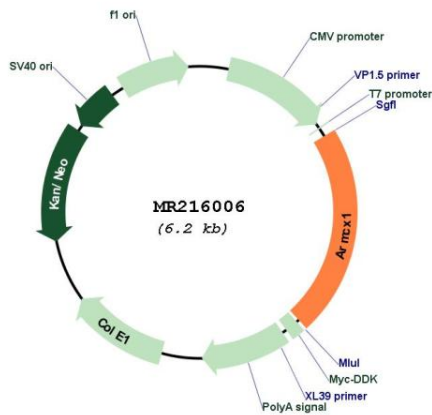
**UniProt ID:** [Q9CX83](#)

**Cytogenetics:** X E3

**MW:** 50.6 kDa

**Gene Summary:** Regulates mitochondrial transport during axon regeneration. Increases the proportion of motile mitochondria by recruiting stationary mitochondria into the motile pool. Enhances mitochondria movement and neurite growth in both adult axons and embryonic neurons. Promotes neuronal survival and axon regeneration after nerve injury. May link mitochondria to the Trak1-kinesin motor complex via its interaction with Miro1.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR216006