

Product datasheet for **MG216006**

Armcx1 (NM_001166379) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Armcx1 (NM_001166379) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Armcx1
Synonyms:	3010033I09Rik; ALEX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216006 representing NM_001166379
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTCGCACCCGGAAGCTGGATGTGTGGCTGCAGGCATGGTCATTGGGGCTGGTGCCTGCTACTGTG
 TATACAGACTGACCTGGGAAAAGATGAGAATGAGAAGTTGTGGGATGAGGAAGAGGAGGAAGAGGAGGA
 AGAGGAGGAAAAGTCTTGTAGTGACAAAAGTGAAGAAAGTAAAGACTAATGTTGGGTAGGGGCGAGA
 GGCAAACCTCAAGATGACTCAAAGTCCAAGTTGAGGTGAATGTGGGACCTGAGAATGGTCCAGGTGTA
 AGAAAGAAGTGCACCCAGAATCCAGAGTGGGGTGGACTAGAGGCTAAGCCAAGGCCCTTTTCAAGAC
 TCTAAAGAACAGGCACGTGCAAAGGCAGGCAGAGGCATAAGGCTTCTAACATCTCTAGGAATAGGACC
 CTGACATCAAGTTTGCCTTGCCAGGAGGCAGGGTGGAGGCTGCCACCCGGAAGGACTGGTTCTAGGG
 CTAGGAACAGGACAAGTGGGAAAGTCAAGAGAAAGAACCGAAGCAAGAGCAACAAGGCTCCAGCCACAGC
 ATGGCCTGTACGCAAGGCAAGTTCAGCTTTCCCTATAAAAATTGATGATATTCTGAGCGCCCTGATCTT
 CAAAAGGTCTGAACATCTGGAGAGAACAATGACCCTTTTACTCAGGAAGTAGCACTGGTCACACTGG
 GTAACAATGCAGCATATTCATTTAATCAAAACGCCATCCGTGAGCTGGGTGGAGTCCCCATTATTGCAAA
 GCTGATAAAAACAAGAGACCCCATTTATTAGGAAAAGACTTACAATGCTCTTAATAACTTGAGCGTTAAT
 TCTGAGAATCAGGGCAAGATTAAGACTTATATCAGTCAAGTGTGTGACGATACCATGGTTTGCCTGG
 ACTCAGCCGTCCAGATGGCTGGATTAAGACTCCTACCAACATGACTGTAACATACTACCAACATTT
 GCTTTCTATTCTTTCCAGATTTCTTTGCTTTGTTATTCCTGGGAAACCACTTCACCAAGATACAGACT
 ATGAAACTGATTATAAATTTTACTGAAAACCCAGCCATGACAAGAGAGCTGGTCAGTTGTAAGTACCTT
 CGGAATTGATTTCTGTTTAATAAAGAATGGGATAGAGAGATTCTTCTTAACATTTACCTCTTTGA
 AAATATAAACGATAACATAAAAAGTGAAGGGCTTGCATCTCCAGGAAGGAATTCAGCAGGAGCTCACTG
 TTTTCTTATTTAAGAGTCTGGAGTATGTGTGAAGAAAATCAAAGCATTAGCAAGCCATAAGGATCTGG
 TGGTCAAAGTGAAGTCTAAAAGTCTTAACAAAATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG216006 representing NM_001166379
 Red=Cloning site Green=Tags(s)

MGRTREAGCVAAGMVGAGACYVYRLTWGKDENEKLWDEEEEEEEEEKSCSDKTEKELKTNVGVGAR
 GKPQDDSKSKVEVNVGPENGPVKKEVHPESQSGGLEAKAKALFKLKEQARAKAGRGIRLPNISRNR
 LTSSLPCPGGRGGGCHPGRGTGSRARNRTSGKVKRKNRSKSNKAPATAWPVRKGF SFPYKIDDILSAPDL
 QKVLNILERNDPFTQEVALVTLGNNAAYSFNQNAIRELGGVPIIAKLIKTRDPIIREKTYNALNLSVN
 SENQGGIKTYISQVDDTMVCRLD SAVQMAGLRLLTNMTVTNHYQHLLSYSPDFDFALLFLGNHFTKIQT
 MKLIINF TENPAMTRELVSCKVPELISL FNKEWDREILLNLT LFENINDNIKSEGLASSRKEFSRSSL
 FFLFKESGVCVKIKALASHKDLVVKVVKLVKLT

TRTRPLE - GFP Tag - V

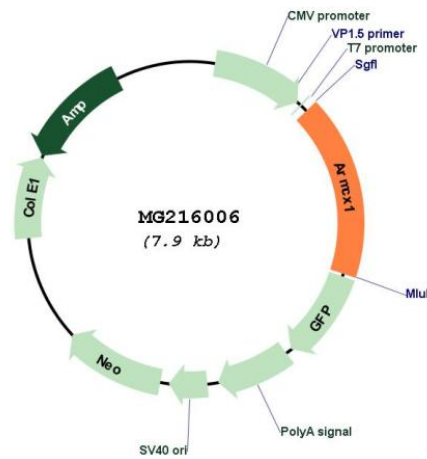
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<ol style="list-style-type: none">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:	<u>NM_001166379.1, NP_001159851.1</u>
RefSeq Size:	2306 bp
RefSeq ORF:	1371 bp
Locus ID:	78248
UniProt ID:	<u>Q9CX83</u>
Cytogenetics:	X E3
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]