

Product datasheet for **MR207280**

Armcx1 (NM_001166378) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Armcx1 (NM_001166378) 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:

>MR207280 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTCGCACCCGGAAGCTGGATGTGTGGCTGCAGGCATGGTCATTGGGGCTGGTGCCTGCTACTGTG
 TATACAGACTGACCTGGGAAAAGATGAGAATGAGAAGTTGTGGGATGAGGAAGAGGAGGAAGAGGAGGA
 AGAGGAGGAAAAGTCTTGTAGTGACAAAAGTGAAGAAAGTAAAGACTAATGTTGGGGTAGGGGCGAGA
 GGCAAACCTCAAGATGACTCAAAGTCCAAGTTGAGGTGAATGTGGGACCTGAGAATGGTCCAGGTGTA
 AGAAAAGAGTGCACCCAGAATCCAGAGTGGGGTGGACTAGAGGCTAAGGCCAAGGCCCTTTTCAAGAC
 TCTAAAGAACAGGCACGTGCAAAGGCAGGCAGAGGCATAAGGCTTCTAACATCTCTAGGAATAGGACC
 CTGACATCAAGTTTGCCTTGCCAGGAGGCAGGGTGGAGGCTGCCACCCGGAAGGACTGGTTCTAGGG
 CTAGGAACAGGACAAGTGGGAAAGTCAAGAGAAAACCGAAGCAAGAGCAACAAGGCTCCAGCCACAGC
 ATGGCCTGTACGCAAGGCAAGTTCAGCTTTCCCTATAAAAATTGATGATATTCTGAGCGCCCTGATCTT
 CAAAAGGTCTGAACATCTGGAGAGAACAATGACCCTTTTACTCAGGAAGTAGCACTGGTCACACTGG
 GTAACAATGCAGCATATTCATTTAATCAAAACGCCATCCGTGAGCTGGGTGGAGTCCCCATTATTGCAAA
 GCTGATAAAAACAAGAGACCCCATTTATTAGGAAAAGACTTACAATGCTCTTAATAACTTGAGCGTTAAT
 TCTGAGAATCAGGGCAAGATTAAGACTTATATCAGTCAAGTGTGTGACGATACCATGGTTTCCCGCTTG
 ACTCAGCCGTCCAGATGGCTGGATTAAGACTCCTACCAACATGACTGTAACATACTACCAACATTT
 GCTTTCTATTCTTTCCAGATTTCTTTGCTTTGTTATTCTGGGAAACCACTTCACCAAGATACAGACT
 ATGAAACTGATTATAAATTTTACTGAAAACCCAGCCATGACAAGAGAGCTGGTCAGTTGTAAGTACCTT
 CGGAATTGATTTCTGTTTAATAAAGAATGGGATAGAGAGATTCTTCTTAACATTCTTACCCTTTTGA
 AAATATAAACGATAACATAAAAAGTGAAGGGCTTGCATCTCCAGGAAGGAATTCAGCAGGAGCTCACTG
 TTTTCTTATTTAAAGAGTCTGGAGTATGTGTGAAGAAAATCAAAGCATTAGCAAGCCATAAGGATCTGG
 TGGTCAAAGTGAAGTTCTAAAAGTCTTAAACAAAATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207280 protein sequence
 Red=Cloning site Green=Tags(s)

MGRTREAGCVAAGMVGAGACYVYRLTWGKDENEKLWDEEEEEEEEEKSCSDKTEKELKTNVGVGAR
 GKPQDDSKSKVEVNVGPENGPVKKVHPESQSGGLEAKAKALFKLKEQARAKAGRGIRLPNISRNRT
 LTSSLPCPGRRGGGCHPGRTGSRARNRTSGKVKRKNRSKSNKAPATAWPVRKGF SFPYKIDDILSAPDL
 QKVLNILERNDPFTQEVALVTLGNAAYSFNQNAIRELGGVPIIAKLIKTRDPIIREKTYNALNLSVN
 SENQGIKTYISQVDDTMVCRLDASVQAGLRLLTNMTVTNHYQHLLSYSPDFDFALLFLGNHFTKIQT
 MKLIINFTEPAMTRELVSCKVPSLISLFNKEWDREILLNILTLFENINDNIKSEGLASSRKEFSRSSL
 FFLFKESGVCVKKIKALASHKDLVVKVVKLVTKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001166378

ORF Size: 1371 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_001166378.1](#), [NP_001159850.1](#)

RefSeq Size: 2190 bp

RefSeq ORF: 1371 bp

Locus ID: 78248

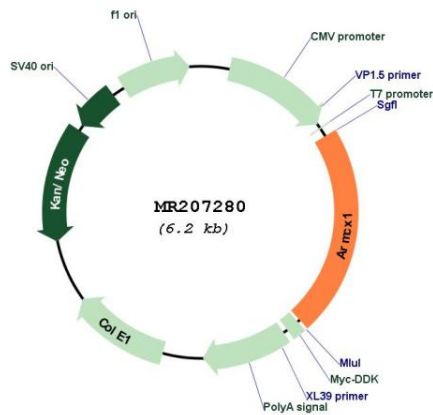
UniProt ID: [Q9CX83](#)

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 MR207280