

Product datasheet for **MG207295**

Armcx1 (BC021410) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Armcx1 (BC021410) 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:

>MG207295 representing BC021410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTCGCACCCGGAAGCTGGATGTGTGGCTGCAGGCATGGTCATTGGGGCTGGTGCCTGCTACTGTG
 TATACAGACTGACCTGGGAAAAGATGAGAATGAGAAGTTGTGGGATGAGGAAGAGGAGGAAGAGGAGGA
 AGAGGAGGAAAAGTCTTGTAGTGACAAAAGTGAAGAACTTAAGACTAATGTTGGGGTAGGGGCGAGA
 GGCAAACCTCAAGATGACTCAAAGTCCAAGTTGAGGTGAATGTGGGACCTGAGAATGGTCCAGGTGTA
 AGAAAAGAGTGCACCCAGAATCCAGAGTGGGGTGGACTAGAGGCTAAGCCAAGGCCCTTTTCAAGAC
 TCTAAAGAACAGGCACGTGCAAAGGCAGGCAGAGGCATAAGGCTTCTAACATCTCTAGGAATAGGACC
 CTGACATCAAGTTTGCCTTGCCAGGAGGCAGGGTGGAGGCTGCCACCCGGGAAGGACTGGTTCTAGGG
 CTAGGAACAGGACAAGTGGGAAAGTCAAGAGAAAACCGAAGCAAGAGCAACAAGGCTCCAGCCACAGC
 ATGGCCTGTACGCAAGGGCAAGTTCAGCTTTCCCTATAAAAATTGATGATATTCTGAGCGCCCTGATCTT
 CAAAAGTCTGAACATCCTGGAGAGAACAATGACCCTTTTACTCAGGAAGTAGCACTGGTCACACTGG
 GTAACAATGCAGCATATTCATTTAATCAAAACGCCATCCGTGAGCTGGGTGGAGTCCCCATTATTGCAAA
 GCTGATAAAAACAAGAGACCCCATTTATTAGGAAAAGACTTACAATGCTCTTAATAACTTGAGCGTTAAT
 TCTGAGAATCAGGGCAAGATTAAGACTTATATCAGTCAAGTGTGTGACGATACCATGGTTTGGCCGTTGG
 ACTCAGCCGTCCAGATGGCTGGATTAAGACTCCTACCAACATGACTGTAACATACTACCAACATTT
 GCTTTCTATTCTTTCCAGATTTCTTTGCTTTGTTATTCTGGGAAACCACTTCACCAAGATACAGACT
 ATGAACTGATTATAAATTTTACTGAAAACCCAGCCATGACAAGAGAGCTGGTCAGTTGTAAGTACCTT
 CGGAATTGATTTCTGTTTAATAAAGAATGGGATAGAGAGATTCTTCTTAACATTTACCCCTTTTGA
 AAATATAAACGATAACATAAAAAGTGAAGGGCTTGCATCTCCAGGAAGGAATTCAGCAGGAGCTCACTG
 TTTTCTTATTTAAAGAGTCTGGAGTATGTGTGAAGAAAATCAAAGCATTAGCAAGCCATAAGGATCTGG
 TGGTCAAAGTGAAGTTCTAAAAGTCTTAACAAAATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207295 representing BC021410
 Red=Cloning site Green=Tags(s)

MGRTREAGCVAAGMVGAGACYVYRLTWGKDENEKLWDEEEEEEEEEKSCSDKTEKELKTNVGVGAR
 GKPQDDSKSKVEVNVGPENGPVKKEVHPESQSGGLEAKAKALFKLKEQARAKAGRGIRLPNISRNRT
 LTSSLPCPGRRGGGCHPGRGTGSRARNRTSGKVKRKNRSKSNKAPATAWPVRKGF SFPYKIDDILSAPDL
 QKVLNILERNDPFTQEVALVTLGNNAAYSFNQNAIRELGGVPIIAKLIKTRDPIIREKTYNALNLSVN
 SENQKIKTYISQVDDTMVCRLDSAVQMAGLRLLTNMTVTNHYQHLLSYSPDFDFALLFLGNHFTKIQT
 MKLIINF TENPAMTRELVSCKVPELISL FNKEWDREILLNLT LFENINDNIKSEGLASSRKEFSRSSL
 FFLFKESGVCVKIKALASHKDLVVKVVKLVKLT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC021410

ORF Size: 1370 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: [BC021410](#), [AAH21410](#)

RefSeq Size: 2313 bp

RefSeq ORF: 1370 bp

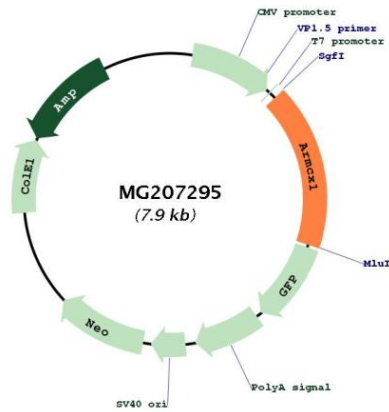
Locus ID: 78248

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]

Product images:



Circular map for MG207295