

Product datasheet for **RR203257**

Armcx1 (NM_001024367) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Armcx1 (NM_001024367) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Armcx1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR203257 representing NM_001024367
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTCGCACCCGGAAGCTGGATGTGTGGCTGCGGGCATGGTCATTGGGGCTGGTGCCTGCTACTGTG
 TGTACAGACTGACCTGGGGAAAAGATGAGAATGAGAAAGTTGTGGGATGATGAAGATGAGGAAGAGGAAGA
 AGAGGAAGAGTCTTGTAGTGGCAAACAGAAATGGGGGCAAACTGTAAAAGAAGCTAAGACTCATGTT
 GGAGTAGGTGCGGGAGCCAAACCTCAAGATGACTCAAAGTCCAAGGCTGAGGCGAATGTGGGACCTGAGA
 ATGGTCCAGATGTAAGAAGGAAGTGTACCCAGAATCCCATAGTGAGGGTGGCCTAGAAGCTAAGGCCAA
 AGCCCTTTTCAAGTCCCTAAAGGAACAGGCAAGTGCAAAGGCAGGCAGAGGCATAAGGTTTCTAACATC
 TCTAGGATTAGGACCCTGACATCAAGTTTGCCTGCCAGGAGGCAGAGGTGGAGGCTGCCACCCAGGAA
 GGACTGGCTCTAGGGCTAGGAATAGGACAAGTGGGAAAGTCAAGAGAAAGAACCGAAGCAAGAGTAACAA
 GGCTCCAGCCACAGCATGGCCTGTCGAGGGCAAGTTCAGCTTCCCTATAAAATTGATGATATTTTG
 AGTGCCCTGATCTTCAAAGGTCCTTAACATCTTGGAGAGAACAATGACCCTTCACTCAGGAAGTAG
 CACTGGTCACATTGGGTAACAATGCAGCGTATTCAATTAATCAAAATGCCATCCGTGAATTGGGTGGGGT
 CCCAATTATCGCAAACTGATAAAAAACAAGAGACCCCATATTAGAGAAAAGACTTACAATGCTCTTAAT
 AACTTGAGTGTTAATTCTGAAAATCAGGGCAAGATTAAGACTTATATCAGTCAAGTGTGTGACGATACCA
 TGGTTTGTGCGATTGGACTCAGCTGTCCAGATGGCGGGACTAAGACTCCTTACCAACATGACTGTGACTAA
 TCACTACCAACATTTGCTTTCCTATTCTTCCAGACTTCTTGTCTTGTATTTCTGGGAAATCACTTC
 ACCAAGATACAACTATGAACTAATTATAAATTTACTGAAAACCCAGCCATGACAAGAGAGCTGGTCA
 GTTGTAAGGTACCATCAGAAGTATTTCTCTCTTAAATAAAGAATGGGATAGAGAGATTCTCTTAACAT
 TCTTACCCTCTTTGAAAATATAAATGACAACATAAAAAGTGAAGGGCTTGCATCATCCAGGAAAGAATTC
 AGCAGAAGCTCACTGTTTTTCTATTTAAAGAGTCTGGAGTATGTGTTAAGAAAATCAAAGCATTAGCAA
 GTCATAAGGATCTGGTGGTCAAAGTGAAGTCTGAAAGTCTTAACCAAATTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203257 representing NM_001024367
 Red=Cloning site Green=Tags(s)

MGRTREAGCVAAGMVGAGACYCVYRLTWGKDENEKLWDEDEEEEEEEESC SGKPEIGGKTVKERKTHV
 GVGAGAKPQDDSKSKAEANVPENGPDKKEVYPESHSEGGLEAKAKALFKSLKEQASAKAGRGIRFPNI
 SRIRTLTSSLPCPGRRGGGCHPGRGSRARNRTSGKVKRKNRSKSNKAPATAWPVRRGKFSFPYKIDDIL
 SAPDLQKVLNILERTNDPFTQEVALVTLGNNAAYSFNQNAIRELGGVPIIAKLIKTRDPIIREKTYNALN
 NLSVNSENQKIKTYISQVCDTDMVCRLDSAVQMAGLRLLTNMTVTNHYQHLLSYSFPDFALLFLGNHF
 TKIQMKLIINFENPAMTRELVSCKVPSLEISLFNKEWDREILLNILTLFENINDNIKSEGLASSRKEF
 SRSSLFFLFKESGVCKIKALASHKDLVVKVKVLKVLTKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3705_a05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001024367

ORF Size: 1383 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

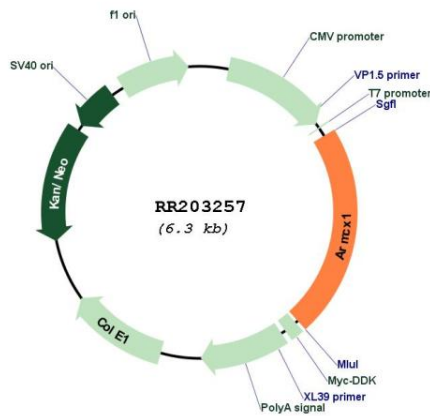
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001024367.1](#), [NP_001019538.1](#)
RefSeq Size: 2157 bp
RefSeq ORF: 1386 bp
Locus ID: 501619
UniProt ID: [Q5U310](#)
Cytogenetics: Xq32
MW: 51 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 RR203257