OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RN203257

Armcx1 (NM_001024367) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Armcx1 (NM_001024367) Rat Untagged Clone

Tag: Tag Free

Symbol: Armcx1

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

Fully Sequenced ORF:

>RN203257 representing NM_001024367
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGTCGCACCCGGGAAGCTGGATGTGTGGCTGCGGGCATGGTCATTGGGGCTGGTGCCTGCTACTGTG
TGTACAGACTGACCTGGGGAAAAGATGAGAATGAGAAGTTGTGGGATGATGAAGATGAGGAAGAGGAAGA
AGAGGAAGAGTCTTGTAGTGGCAAACCAGAAATTGGGGGCAAAACTGTAAAAGAACGTAAGACTCATGTT
GGAGTAGGTGCGGGAGCCAAACCTCAAGATGACTCAAAGTCCAAGGCTGAGGCGAATGTGGGACCTGAGA
ATGGTCCAGATGTAAAGAAGGAAGTGTACCCAGAATCCCATAGTGAGGGTGGCCTAGAAGCTAAGGCCAA
AGCCCTTTTCAAGTCCCTAAAGGAACAGGCAAGTGCAAAGGCAGGCAGAGGCATAAGGTTTCCTAACATC
TCTAGGATTAGGACCCTGACATCAAGTTTGCCCTGCCCAGGAGGCAGAGGTGGAGGCTGCCACCCAGGAA
GGACTGGCTCTAGGGCTAGGAATAGGACAAGTGGGAAAGTCAAGAGAAAGAACCGAAGCAAGAGTAACAA
GGCTCCAGCCACAGCATGGCCTGTTCGCAGGGGCAAGTTCAGCTTTCCCTATAAAATTGATGATATTTTG
AGTGCCCCTGATCTTCAAAAGGTCCTTAACATCTTGGAGAGAACAAATGACCCTTTCACTCAGGAAGTAG
CACTGGTCACATTGGGTAACAATGCAGCGTATTCATTTAATCAAAATGCCATCCGTGAATTGGGTGGGGT
CCCAATTATCGCAAAACTGATAAAAACAAGAGACCCCATTATTAGAGAAAAGACTTACAATGCTCTTAAT
AACTTGAGTGTTAATTCTGAAAATCAGGGCAAGATTAAGACTTATATCAGTCAAGTGTGTGACGATACCA
TGGTTTGTCGATTGGACTCAGCTGTCCAGATGGCGGGACTAAGACTCCTTACCAACATGACTGTGACTAA
TCACTACCAACATTTGCTTTCCTATTCTTTCCCAGACTTCTTTGCTTTGTTATTTCTGGGAAATCACTTC
ACCAAGATACAAACTATGAAACTAATTATAAACTTTACTGAAAACCCAGCCATGACAAGAGAGCTGGTCA
GTTGTAAGGTACCATCAGAACTGATTTCTCTCTTTAATAAAGAATGGGATAGAGAGATTCTTCTTAACAT
TCTTACCCTCTTTGAAAATATAAATGACAACATAAAAAGTGAAGGGCTTGCATCATCCAGGAAAGAATTC
AGCAGAAGCTCACTGTTTTTCTTATTTAAAGAGTCTGGAGTATGTGTTAAGAAAATCAAAGCATTAGCAA
GTCATAAGGATCTGGTGGTCAAAGTGAAAGTTCTGAAAGTCTTAACCAAATTATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001024367
Insert Size:	1386 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. Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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
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]