

Product datasheet for **MC202277**

Armcx3 (NM_027870) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Armcx3 (NM_027870) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Armcx3
Synonyms:	1200004E24Rik; AI450003; ALEX3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC051113 sequence for NM_027870
 CAGAAGTCCTTCTTGTCCTGGTCTGTTCCCGTCTGAGTACCAGCTCCCTATTACCCTGAGGGCGGGCG
 AGTGCAGCCGAGAAAAGAAGGAGGCGGAAAAGAAATTGTCCCAGATCCCTGCAGTCTTCCGTAGGTTGC
 GGTACAACGCCAGGCAAGAGAAGAGGAAGGAAATTAACCAGATCGGTGAAGTTCGAGTTGAGGGTCTGCT
 GTAGCAGGTGGCACTGCTGAACCAAGGGAGGAAGTTCCTCCCGGATCAGTAGAGATCAGAAAGACTGTT
 GGGCGTGGCATAACCCACAGGAAAGGAAGAAGGGCAAGCTGCTGTTTTAAGGAGGTTTACCTCTGTAAG
 CAATTACTGTGGCCTTGAAGTGAAGTGAAGAAGATCACTCTCCACAGGACTGCAGTCCAGGCCCCAAGGCC
 TCTTCCCTTATCTTGAGTGACTACTTATTTCTTGGTCCCTGCCGTTGCCAGGGACGATTGCATGGGCTA
 CGCCAGGAAAGTAGGCTGGGTGACTGCAGTCTGGTGATTGGGGCTGGAGCCTGCTATTGCATTTACAGA
 TTGACCCGAGGAAGAAAGCAGAACAAAGGAGAAAATGGCTGAGGGTGGCTCTGGTGATGTGGATGATGCTG
 GGGACTGTTCTGGGGCCAGGTATAATGACTGGTCTGATGATGATGATGACAGTAACGAGAGCAAGAGTAT
 AGTTTGGTACCCACCTTGGGCCCGATTGGCACTGAAGCAGGGACCAGAGCCAGAGCCAGGGCAAGAGCC
 AGGGCTACCAGGGCTCGAAGAGCTGTACAGAAAAGGGCTTCTCCTAATTCAGACGATACTGTTTTGTAC
 CTCAGAGTTACAGAAAGTACTTTGTTTGGTTGAGATGTCTGAAAAGCCTTATATCTTGAAGCAGCTTT
 AATTGCTCTGGTAATAATGCTGCTTATGCATTTAATAGAGATATTATTGAGATTTGGGTGGTCTCCCA
 ATTGTTGCAAAGATTCTCAATACAGAGATCCCATTTGTTAAGGAAAAGGCTTTAATTGTCCTAAATAACT
 TGAGCGTGAATGCCGAAAATCAGCGCAGGCTTAAGGTATACATGAATCAAGTGTGTGATGACACAGTCAC
 TTCCCATTGAATTCCTCTGTGCAGCTGGCTGGACTCAGATTGCTTACCAATATGACTGTTACTAACGAG
 TATCAGCATATCCTTGCTAATCCATTTTCAAGTCTTTTCTGTTTATTTTTCAGCGGGGAATGAAGAAACCA
 AACTTCAGGTTCTGAAGTCTTTTGAATCTGGCTGAAAATCCAGCCATGACTAGAGAAGTCTCAGGGC
 TCAGGTGCCATCTTCACTGGGCTCCCTCTTAAAGAAGGAGTACAAAGAGGTTATTCTTAAACTTCTG
 ATCATTTTTGAGAATATCAATGACAATTTCAAATGGGAAGAGAACGAGCCTGCTCAGAATCACTTTAGTG
 AGGGCTCCCTTTTTTCTTAAAAGAATTTCAAGTGTGTGCTGATAAAGTTCTAGGAATCGAGAGCCG
 TCATGATTTCCAGGTGCCAGTCAAGGTTGGAAAGTTTGTGGCCAAACTGACTGAAAGGATGTTCCCAAAG
 AGTCAGGAATAACTTGGTGGCTTTGTAGTGTAGCAGCAGCAGCACCTTGTAAGTATTCTTTTTCTCC
 ACGTTGTTTATATGGCAAAGGAACCTTTTCAAGTGTGATGAATATCATACTGTATCACC
 GATGTTGATATTTAACCAAGTTTGTCTTCAAGTATAAGTTAATGAATGTACATCACTACTTGTCTGAA
 ACATGTCGATTTTATTTTGTGCCCACATTGAAACATTTTTCTGTTCCCTCCCTATAAGTGACAGCGAA
 TCAATTCATCCTAAGTAGGCCCTTTCTGTCATTATCATTGATTTTATTTGTGCATCTTCAATAAAGTTT
 TATGTTAATGCTGAAAAGAAACAA

Restriction Sites: RsrII-NotI

ACCN: NM_027870

Insert Size: 1140 bp

OTI Disclaimer: 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: [BC051113](#), [AAH51113](#)

RefSeq Size: 2027 bp

RefSeq ORF: 1140 bp

Locus ID: 71703

UniProt ID: [Q8BHS6](#)

Cytogenetics: X E3

Gene Summary: Regulates mitochondrial aggregation and transport in axons in living neurons (PubMed:22569362, PubMed:23844091). May link mitochondria to the Trak2-kinesin motor complex via its interaction with Miro and Trak2 (PubMed:22569362). Mitochondrial distribution and dynamics is regulated through Armcx3 protein degradation, which is promoted by PCK and negatively regulated by Wnt1 (PubMed:23844091). Enhances the Sox10-mediated transactivation of the neuronal acetylcholine receptor subunit alpha-3 and beta-4 subunit gene promoters (PubMed:19304657).[UniProtKB/Swiss-Prot Function]