

## Product datasheet for **RN210563**

### Armxc3 (NM\_001014273) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Armxc3 (NM\_001014273) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Armxc3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN210563 representing NM\_001014273  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCTACGCCAGGAAAGTAGGCTGGGTGACTGCAGGCCTGGTATTGGGGCTGGAGCCTGCTATTGCA  
TTTACAGATTGACCCGAGGAAGAAAGCAGAACAAGGAGAAAAATGGCCGAGGGTGGCCCCGGTGATGTGGA  
GGATGCTGGGGACTGTTCTGGGGCCAGGTATAATGACTGGTCTGATGATGATGATGACAGTAATGAGAGC  
AAGAGTATAGTTTGGTACCCACCTTGGGCCCGGATTGGCACTGAAGCAGGGACCAGAGCTAGAGCCAGGG  
CAAGAGCCAGGGCTACCGAGGCTCGGAGAGCTGTTTCAGAAAAGGGCTTCTCCTAATTCAGACGATACTGT  
TTTGTCTCCTCAAGAGTTACAAAAAGTACTTTGTTGGTTGAGATGTCTGAAAAGCCTTACATTCTTGAG  
GCAGCTTTAATTGCTCTGGGTAATAATGCCGCTTACGCATTTAATAGAGATATTATTCGCGATTTGGGTG  
GTCTCCCAATTGTTGCAAAGATTCTCAATACTCGAGATCCCATTTGTAAGGAAAAGGCTTTAATTGTCT  
AAATAACTTGAGTGTGAATGCTGAAAATCAGCGCAGGCTTAAGATATACATGAATCAAGTGTGCGATGAC  
ACAGTCACCTCCCGATTGAACTCGTCTGTGCAGCTGGCTGGACTCAGACTGCTTACAAATATGACTGTTA  
CTAACGAGTATCAGCACATCCTTGCTAATTCATTTCCAGACTTTTTTCGTTTATTTTCAGCAGGGAAATGA  
AGAAACCAAATTCAGGTTCTGAAACTCCTTTTGAATCTGGCTGAAAATCCAGCCATGACTAGAGAAGCTG  
CTCGGGGCTCATGTGCCGCTTCTACTGGGCTCCCTCTTTAATAAGAAGGAGTACAAAGAGGTTATTTCTTA  
AACTCCTGAGCATTTTTGAGAATATCAATGACAATTTCAAATGGGAAGAAAACGAGCCTGCTCAGAAATCA  
CTTTAGTGAGGGTTCCCTTTTTTTCTTTTTAAAAGAATTTCAAGTGTGTGCTGATAAAGTCTGGGAATT  
GAAAGCCACCATGATTTCCAGGTGAGAGTCAAGGTTGGAAAGTTTGTGACCAAATGACTGAGCGGATGT  
TCCCAAAGAGCCAGGAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001014273



<b>Insert Size:</b>	1140 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001014273.1</a> , <a href="#">NP_001014295.1</a>
<b>RefSeq Size:</b>	1992 bp
<b>RefSeq ORF:</b>	1140 bp
<b>Locus ID:</b>	367902
<b>UniProt ID:</b>	<a href="#">Q5XID7</a>
<b>Cytogenetics:</b>	Xq32
<b>Gene Summary:</b>	Regulates mitochondrial aggregation and transport in axons in living neurons. May link mitochondria to the Trak2-kinesin motor complex via its interaction with Miro and Trak2. Mitochondrial distribution and dynamics is regulated through Armcx3 protein degradation, which is promoted by PCK and negatively regulated by Wnt1. Enhances the Sox10-mediated transactivation of the neuronal acetylcholine receptor subunit alpha-3 and beta-4 subunit gene promoters.[UniProtKB/Swiss-Prot Function]