

## Product datasheet for **RR210563**

### Armcx3 (NM\_001014273) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Armcx3 (NM_001014273) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Armcx3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210563 representing NM_001014273 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGCTACGCCAGGAAAGTAGGCTGGGTGACTGCAGGCCTGGTATTGGGGCTGGAGCCTGCTATTGCA  
TTTACAGATTGACCCGAGGAAGAAAGCAGAACAAGGAGAAAAATGGCCGAGGGTGGCCCCGGTGATGTGGA  
GGATGCTGGGGACTGTTCTGGGGCCAGGTATAATGACTGGTCTGATGATGATGATGACAGTAATGAGAGC  
AAGAGTATAGTTTGGTACCCACCTTGGGCCGGATTGGCACTGAAGCAGGGACCAGAGCTAGAGCCAGGG  
CAAGAGCCAGGGCTACCAGGGCTCGGAGAGCTGTTTCAGAAAAGGGCTTCTCCTAATTCAGACGATACTGT  
TTTGTCTCCTCAAGAGTTACAAAAAGTACTTTGTTGGTTGAGATGTCTGAAAAGCCTTACATTCTTGAG  
GCAGCTTTAATTGCTCTGGGTAATAATGCCGCTTACGCATTTAATAGAGATATTATTCGCGATTTGGGTG  
GTCTCCCAATTGTTGCAAAGATTCTCAATACTCGAGATCCCATTGTGAAGGAAAAGGCTTTAATTGTCT  
AAATAACTTGAGTGTGAATGCTGAAAATCAGCGCAGGCTTAAGATATACATGAATCAAGTGTGCGATGAC  
ACAGTCACTCCCGATTGAACTCGTCTGTGCAGCTGGCTGGACTCAGACTGCTTACAAATATGACTGTTA  
CTAACGAGTATCAGCACATCCTTGCTAATTCATTTCAGACTTTTTTCGTTTATTTTCAGCAGGGAATGA  
AGAAACCAAATTCAGGTTCTGAACTCCTTTTGAATCTGGCTGAAAATCCAGCCATGACTAGAGAAGCTG  
CTCGGGGCTCATGTGCCGCTTCTACTGGCTCCCTCTTTAATAAGAAGGAGTACAAAGAGGTTATTCTTA  
AACTCCTGAGCATTTTTGAGAATATCAATGACAATTTCAAATGGGAAGAAAACGAGCCTGCTCAGAAATCA  
CTTTAGTGAGGGTTCCCTTTTTTTCTTTTTAAAAGAATTTCAAGTGTGTGCTGATAAAGTCTGGGAATT  
GAAAGCCACCATGATTTCCAGGTGAGAGTCAAGGTTGAAAAGTTTGTGACCAAATGACTGAGCGGATGT  
TCCCAAAGAGCCAGGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210563 representing NM\_001014273  
Red=Cloning site Green=Tags(s)

MGYARKVGVWVTAGLVIGAGACYCIYRL TRGRKQNKKEKMAEGGPGDVEDAGDCSGARYNDWSDDDDDSNES  
 KSIWVYPPWARIGTEAGTRARARARATRRARAVQKRASPNSSDVTLS PQELQKVLCLVEMSEKPYILE  
 AALIALGNNAAYAFNRDIIRDLGGLPIVAKILNTRDPIVKEKALIVLNNLSVNAENQRRLKIYMNQVCCD  
 TVTSRLNSSVQLAGLRLLTNMTVTNEYQHILANSISDFRFLFSAGNEETKLQVLKLLLNLAENPAMTREL  
 LGAHVPSLGLSFLFNKKEYKEVILKLLSIFENINDNFKWEENEPAQNHFSEGLSFFFLKEFQVCADKVLGI  
 ESHHDFQVRVKVKGKVFVKLTERMFPKSQE

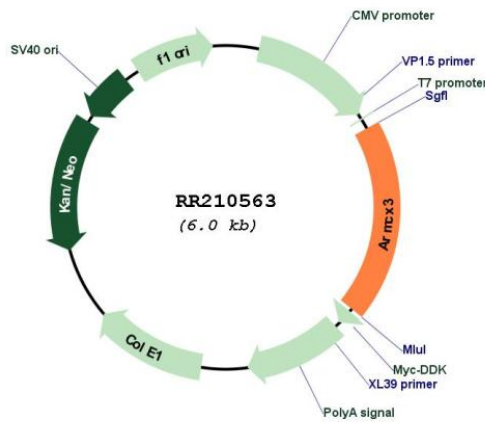
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001014273

<b>ORF Size:</b>	1137 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>MW:</b>	42.6 kDa
<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]