

## Product datasheet for **MG217563**

### **Armcx1 (NM\_030066) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Armcx1 (NM_030066) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Armcx1
Synonyms:	3010033I09Rik; ALEX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217563 representing NM\_030066  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGTCGCACCCGGAAGCTGGATGTGTGGCTGCAGGCATGGTCATTGGGGCTGGTGCCTGCTACTGTG  
 TATACAGACTGACCTGGGAAAAGATGAGAATGAGAAGTTGTGGGATGAGGAAGAGGAGGAAGAGGAGGA  
 AGAGGAGGAAAAGTCTTGTAGTGACAAAAGTGAAGAAAGTAAAGACTAATGTTGGGTAGGGGCGAGA  
 GGCAAACCTCAAGATGACTCAAAGTCCAAGTTGAGGTGAATGTGGGACCTGAGAATGGTCCAGGTGTA  
 AGAAAAGAGTGCACCCAGAATCCAGAGTGGGGTGGACTAGAGGCTAAGCCAAGGCCCTTTTCAAGAC  
 TCTAAAGAACAGGCACGTGCAAAGGCAGGCAGAGGCATAAGGCTTCTAACATCTCTAGGAATAGGACC  
 CTGACATCAAGTTTGCCTTGCCAGGAGGCAGGGTGGAGGCTGCCACCCGGAAGGACTGGTTCTAGGG  
 CTAGGAACAGGACAAGTGGGAAAGTCAAGAGAAAAGCAAGCAAGAGCAACAAGGCTCCAGCCACAGC  
 ATGGCCTGTACGCAAGGGCAAGTTCAGCTTTCCCTATAAAAATTGATGATATTCTGAGCGCCCTGATCTT  
 CAAAAGGTCTGAACATCTGGAGAGAACAATGACCCTTTTACTCAGGAAGTAGCACTGGTCACACTGG  
 GTAACAATGCAGCATATTCATTTAATCAAAACGCCATCCGTGAGCTGGGTGGAGTCCCCATTATTGCAAA  
 GCTGATAAAAACAAGAGACCCCATTTATTAGGAAAAGACTTACAATGCTCTTAATAACTTGAGCGTTAAT  
 TCTGAGAAATCAGGGCAAGATTAAGACTTATATCAGTCAAGTGTGTGACGATACCATGGTTTGCCGCTTG  
 ACTCAGCCGTCCAGATGGCTGGATTAAGACTCCTACCAACATGACTGTAACATACTACCAACATTT  
 GCTTTCTATTCTTTCCAGATTTCTTTGCTTTGTTATTCCTGGGAAACCACTTCACCAAGATACAGACT  
 ATGAAACTGATTATAAATTTTACTGAAAACCCAGCCATGACAAGAGAGCTGGTCAGTTGTAAGTACCTT  
 CGGAATTGATTTCTCTGTTAATAAAGAATGGGATAGAGAGATTCTTCTTAACATTTACCCCTTTTGA  
 AAATATAAACGATAACATAAAAAGTGAAGGGCTTGCATCTCCAGGAAGGAATTCAGCAGGAGCTCACTG  
 TTTTCTTATTTAAGAGTCTGGAGTATGTGTGAAGAAAATCAAAGCATTAGCAAGCCATAAGGATCTGG  
 TGGTCAAAGTGAAGTTCTAAAAGTCTTAACAAAATTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG217563 representing NM\_030066  
 Red=Cloning site Green=Tags(s)

MGRTREAGCVAAGMVGAGACYCVYRLTWGKDENEKLWDEEEEEEEEEKSCSDKTEKELKTNVGVGAR  
 GKPQDDSKSKVEVNVGPENGPVKKEVHPESQSGGLEAKAKALFKTLKEQARAKAGRGIRLPNISRNR  
 LTSSLPCPGRRGGGCHPGRGTGSRARNRTSGKVKRKNRSKSNKAPATAWPVRKGF SFPYKIDDILSAPDL  
 QKVLNILERNDPFTQEVALVTLGNNAAYSFNQNAIRELGGVPIIAKLIKTRDPIIREKTYNALNLSVN  
 SENQGGIKTYISQVDDTMVCRLD SAVQMAGLRLLTNMTVTNHYQHLLSYSPDFDFALLFLGNHFTKIQT  
 MKLIINF TENPAMTRELVSCKVPELISL FNKEWDREILLNLT L FENINDNIKSEGLASSRKEFSRSSL  
 FFLFKESGVCVKIKALASHKDLVVKVVKLVKLT

**TRTRPLE** – GFP Tag – V

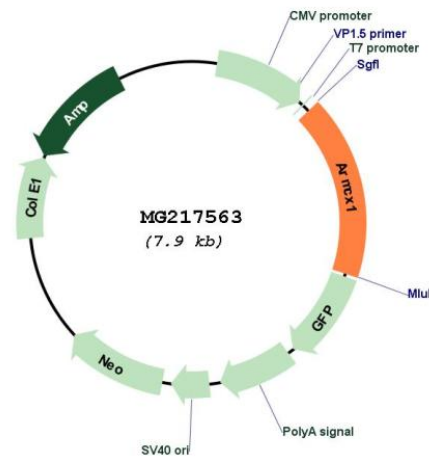
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_030066

ORF Size: 1368 bp

OTI Disclaimer: 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.

<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_030066.3</a> , <a href="#">NP_084342.1</a>
<b>RefSeq Size:</b>	2446 bp
<b>RefSeq ORF:</b>	1371 bp
<b>Locus ID:</b>	78248
<b>UniProt ID:</b>	<a href="#">Q9CX83</a>
<b>Cytogenetics:</b>	X E3
<b>Gene Summary:</b>	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]