

## Product datasheet for **MR210639**

### **Armcx2 (NM\_001166397) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                              |
|---------------------------|----------------------------------------------|
| Product Type:             | Expression Plasmids                          |
| Product Name:             | Armcx2 (NM_001166397) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                      |
| Symbol:                   | Armcx2                                       |
| Synonyms:                 | 3230401N03Rik; AI043003; ALEX2               |
| Mammalian Cell Selection: | Neomycin                                     |
| Vector:                   | pCMV6-Entry (PS100001)                       |
| E. coli Selection:        | Kanamycin (25 ug/mL)                         |



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**ORF Nucleotide Sequence:**

>MR210639 representing NM\_001166397  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCCGAGCTCGGGATGCTGGCTGTGTAGCTGCTGGAATAGTGATTGGGGCAGTGCCTGGTACTGTG  
 TCTACAAATATACTAGGGGAAAAGACCAGAAGAAGAAGAGGCTGACCAAGCCAAGAACCGGCCTCTGT  
 GGGTACTGGAAGCAGGGCTAGAGCGGGCCTCAGAGCTGGATTACAATTGACCTTGGGCCAGGATTCAGT  
 CCCCCAAACCCCGTCGATATTGAGATAATGAACAAGGCCCAAGGAGAAGCCTCCAATCTTGCCACCACCG  
 TAGCTGAAGAAGTGGCACCAGCTGCACCCAGTCTAAGTTTCAAGATGGGGCAGAAAAGTAAGGTCCAGGA  
 GTTAAATGGGGCTAAAAGTGGGCTAATCTGGAATCAGTAGTCATGCCTTACGCTACCTGTACAGTTACA  
 CCTCTCCCAAGGTGGCAGGGGGTCTCACTGCTGCAGAGGCTCCAGAAATCATAGGAGCTCCAAAGTGC  
 TGAAGCTCCCAGCACCACAGAGGCTTCTGGGGCAGTAGCAGCCCCTGGACCAACAGTATCTCCAATGAT  
 AGCCAGACTCCTGGGCCAGTGGTACCTTCGCCAACAATAGTGTCTACTGGGCCAGCAGCAATTCCTGG  
 GCAGTGGCACATCCCGGGGCTGTCCAGTCTCCTGGGCCAGCAGTACCTCCCATGGCAGTCCAATCTCTTG  
 TGCCAGCAGCACCTTCTGGGCAGTAGTAGCACCTCCTGGGGCAGTCTACATTCTGTGGCAGCCCACTT  
 TGCTGGGCCAGCAGCAGCTTCCAGGGTAACCCAGTCTCCTGGGACGGTGATACCTCCCCTTCCACCCCA  
 TCATCAGTACTTCCCAGGGGAGTCCCATCAGTACCTGGCAGAACAGTCCAGTCTCCTGGGGCAGCCGTGC  
 ATCCTGTGGCAGCCCAATCTACTGGGGTAGTAGTGCCTCCTAGGGCAGTACAGTATTCTGGGGCAGCAGT  
 GACTTCTGGAGGGGCAGCAGTACCTTCCGAGGGGCAGCAACTCCTAGGGCAGCAGCATCTACCCAGAGG  
 ACAGCAAGCACAGAAGTCATGCAGTCCCTAGGGTGGCAGCAGCTACTGAAGCCACAGAGACTCCTAGAA  
 TAGGAACACCTGCCATGGTAGTGGCTTCTCTGCCCGTGCATCTGGGGCTGCAGAGAATCCTGGGAC  
 TTCAGGGTCTCTAAGACAGCAGCCACTGGCAAGAAAGCAGCCCCTGGAGCTCACACTGGGGCTATACCT  
 AAAGCTGGGTGAGCCACTGGAGCTGTACCCAAAGTGGAGGAGGCAAGGGTGGAAACAAGAACCGGAGTG  
 GAGGCAAGGGCAAAAATAGGAAGAACAAGGTTGATGTGGATGAGTTGGGGATGGGTTTCCGTCCTGGTGA  
 TGGGGCTGCAGCTGCGGCGGGGCTTCTGCTAATGGGGGCAGGCCTTCTAGCAGAGATTCCGGAATCT  
 GAGGAAGGGGAATCTGGGTGGACTGACACAGAGTCCGATTCTGACTCTGAGCCGGACGTCCCGCAGAGAG  
 GGAAGGGGAAGAGAACCATTCCCATGCATAAGCGCCCTTCCATATGAAATTGATGAGATCCTAGGTGT  
 TCGAGATCTCAGGAAAGTCTAGCCTTGCTTCAAGAGTCAGATGATCCCTTCATTAGCAAGTAGCCCTG  
 CTCACCCTGAGCAACAATGCCAATTATTCATGTAATCAAGAAACAATCCGAAAGTTGGGAGGCCCTCCAA  
 TTATTGCAACATGATCAACAAAAGTACCCCCACATTAAAGGAAAAGCCTTAATGGCCATGAATAACCT  
 GAGTGAATAATGAAAACCAGGGCAGACTTCAGGTGTACATGAATAAAGTATGATGATATTATGGCT  
 TCTAACCTGAACTCAGCGGTACAGGTAGTTGGGCTAAAATTTTTAAACAAACATGACTATTACTAATGACT  
 ACCAGCACCTGCTTGCAATTCCATTGCCAACTTTTTCCGCTTGTATCTCAGGGGGGTGGAAAAATCAA  
 GGTTGAGATTCTGAAAATACTTTCAAACCTTGTGAAAATCCGGACATGCTAAAGAACTTCTCGGTACC  
 CAGGTGCCGTATCATTAGTCCCTTTATAATCTTATGTGGAATCAGAAATCTTATTAATGCCCTTA  
 CTCTATTTGAGATTATCTTCGACAACCTCAGAGCAGAAGTGTCAACTACAGGGAATTCAACAAGGGGTC  
 CCTGTTTTACTTATGCACTACATCTGGGGTGTGTGTAAGAAAATTCGAGCCTTAGCAAAATCACCACGAC  
 CTCTTGGTGAAAGTAAAAGTTATAAAGCTGGTAAACAAATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210639 representing NM\_001166397  
Red=Cloning site Green=Tags(s)

MSRARDAGCVAAGIVIGASAWYCVYKYTRGKDQKKKRLTKPKNRASVGTGSRARAGLRAGFTIDLGPFGS  
PPNPVDIEIMNKAQGEASNLATTVAEEVAPAAPSPKVQNGAESKVQELNGAKTEANLESVMPSATCTVT  
PPPKVAGGLTAAEAPEIIGAPKVL EAPSTTEASGAVAAPGPTVSPMIAQTTPGPVVPSTIVSTGPAAIW  
AVAHPGAVQSPGPAVPPMAVQSLVPAAPSWAVVAPPGAVYIPVAAHFAGPAAASRVTQSPGTVIPPLPPP  
SSVLPRGVPSVPGRTVQSPGAAVHPVAAQSTGVVPPRAVQYSGAAVTSGGAAVPSGGAATPRAAASTQR  
TASTEVMQVPRVAAATEATETPRIGTPAMVAEASLPVHSGAAENPGTSGSSKTAATGKKAAPGAHTGAIP  
KAGSATGAVPKGGGGKGNRSGGKGNRKNKVDVDELGMGFRPGDGAASANGGQAF LAEIPES  
EEGESGWTDES DSDSEPDVPQRGKGKRTIPMHKRPFPYEIDEILGVRDLR KVLALLQKSDDPFIQQVAL  
LTL SNNANYS CNQETIRKLGGLPIIANMINKTDPHIKEKALMAMNNLSENYENQGR LQVYMNKVMDDIMA  
SNLNSAVQVVGLKFLTNMTITNDYQHLLVNSIANFFRLLSQGGGKIKVEILKILSNFAENPDMLKLLGT  
QVPSSFSSLYNSYVESEILINALTLFEIIFDNLRAEVFN YREFNKGSLFYLC TTSGVVCVKKIRALANHHD  
LLVKVKVIKLVNKF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001166397

**ORF Size:** 2352 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.

**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\\_001166397.1](#), [NP\\_001159869.1](#)

**RefSeq Size:** 3683 bp

**RefSeq ORF:** 2355 bp

**Locus ID:** 67416

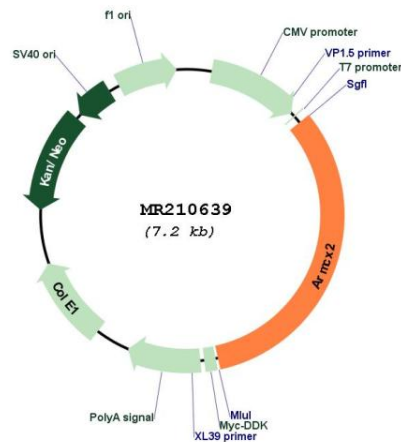
**UniProt ID:** [Q6A058](#)

**Cytogenetics:** X E3

**MW:** 81 kDa

**Gene Summary:** May regulate the dynamics and distribution of mitochondria in neural cells.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210639