

Product datasheet for **MR217947**

Armcx2 (NM_001166398) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Armcx2 (NM_001166398) 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:

>MR217947 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCGAGCTCGGGATGCTGGCTGTGTAGCTGCTGGAATAGTGATTGGGGCAGTGCCTGGTACTGTG
 TCTACAAATATACTAGGGGAAAAGACCAGAAGAAGAAGAGGCTGACCAAGCCAAGAACCGGCCTCTGT
 GGGTACTGGAAGCAGGGCTAGAGCGGGCCTCAGAGCTGGATTACAATTGACCTTGGGCCAGGATTCAGT
 CCCCCAAACCCCGTCGATATTGAGATAATGAACAAGGCCCAAGGAGAAGCCTCCAATCTTGCCACCACCG
 TAGCTGAAGAAGTGGCACCAGCTGCACCCAGTCTAAGTTTCAAGATGGGGCAGAAAAGTAAGGTCCAGGA
 GTTAAATGGGGCTAAAAGTGGGCTAATCTGGAATCAGTAGTCATGCCTTACGCTACCTGTACAGTTACA
 CCTCTCCCAAGGTGGCAGGGGGTCTACTGCTGCAGAGGCTCCAGAAATCATAGGAGCTCCAAAGTGC
 TGAAGCTCCCAGCACCACAGAGGCTTCTGGGGCAGTAGCAGCCCCTGGACCAACAGTATCTCCAATGAT
 AGCCAGACTCCTGGGCCAGTGGTACCTTCGCCAACAATAGTGTCTACTGGGCCAGCAGCAATTCCTGG
 GCAGTGGCACATCCCGGGGCTGTCCAGTCTCCTGGGCCAGCAGTACCTCCATGGCAGTCCAATCTCTTG
 TGCCAGCAGCACCTTCTGGGCAGTAGTAGCACCTCCTGGGGCAGTCTACATTCTGTGGCAGCCCACTT
 TGCTGGGCCAGCAGCAGCTTCCAGGGTAACCCAGTCTCCTGGGACGGTGATACCTCCCCTTCCACCCCA
 TCATCAGTACTTCCCAGGGGAGTCCCATCAGTACCTGGCAGAACAGTCCAGTCTCCTGGGGCAGCCGTGC
 ATCCTGTGGCAGCCCAATCTACTGGGGTAGTAGTGCCCTCCTAGGGCAGTACAGTATTCTGGGGCAGCAGT
 GACTTCTGGAGGGGCAGCAGTACCTTCCGGAGGGGCAGCAACTCCTAGGGCAGCAGCATCTACCCAGAGG
 ACAGCAAGCACAGAAGTCATGCAGTCCCTAGGGTGGCAGCAGTACTGAAGCCACAGAGACTCCTAGAA
 TAGGAACACCTGCCATGGTAGTGAGGCTTCTCTGCCCGTGCATCTGGGGCTGCAGAGAATCCTGGGAC
 TTCAGGGTCTCTAAGACAGCAGCCACTGGCAAGAAAGCAGCCCCTGGAGCTCACACTGGGGCTATACCT
 AAAGCTGGGTGAGCCACTGGAGCTGTACCCAAAGTGGAGGAGGCAAGGGTGGAAACAAGAACCGGAGTG
 GAGGCAAGGGCAAAAATAGGAAGAACAAGGTTGATGTGGATGAGTTGGGGATGGGTTTCCGTCCTGGTGA
 TGGGGCTGCAGCTGCGGCGGGGCTTCTGCTAATGGGGGCAGGCCTTCTAGCAGAGATTCCGGAATCT
 GAGGAAGGGGAATCTGGGTGGACTGACACAGAGTCCGATTCTGACTCTGAGCCGGACGTCCCGCAGAGAG
 GGAAGGGGAAGAGAACCATTCCCATGCATAAGCGCCCTTCCATATGAAATTGATGAGATCCTAGGTGT
 TCGAGATCTCAGGAAAGTCTAGCCTTGCTTCAAGAGTCAGATGATCCCTTCATTACGCAAGTAGCCCTG
 CTCACCCTGAGCAACAATGCCAATTATTCATGTAATCAAGAAACAATCCGAAAGTTGGGAGGCCTCCCAA
 TTATTGCAAACATGATCAACAAAAGTACCCCCACATTAAAGGAAAAGCCTTAATGGCCATGAATAACCT
 GAGTGAATAATGAAAACCGGGCAGACTTCAGGTGTACATGAATAAAGTATGATGGATGATATTATGGCT
 TCTAACCTGAACTCAGCGGTACAGGTAGTTGGGCTAAAATTTTTAAACAAACATGACTATTACTAATGACT
 ACCAGCACCTGCTTGCAATTCCATTGCCAACTTTTTCCGCTTGTATCTCAGGGGGGTGGAAAAATCAA
 GGTTGAGATTCTGAAAATACTTTCAAACCTTGTGAAAATCCGGACATGCTAAAGAAACTTCTCGGTACC
 CAGGTGCCGTATCATTAGTTCCTTTATAATCTTATGTGGAATCAGAAATCTTATTAATGCCCTTA
 CTCTATTTGAGATTATCTTCGACAACCTCAGAGCAGAAGTGTCAACTACAGGGAATTCAACAAGGGGTC
 CCTGTTTTACTTATGCACTACATCTGGGGTGTGTGTAAGAAAATTCGAGCCTTAGCAAAATCACCACGAC
 CTCTTGGTGAAAGTAAAAGTTATAAAGCTGGTAAACAAATTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217947 protein sequence

Red=Cloning site Green=Tags(s)

MSRARDAGCVAAGIVIGASAWYCVYKYTRGKDQKKKRLTKPKNRASVGTGSRARAGLRAGFTIDLGPFGS
PPNPVDIEIMNKAQGEASNLATTVAEEVAPAAPSPKVQNGAESKVQELNGAKTEANLESVMPSATCTVT
PPPKVAGGLTAAEAPEIIGAPKVL EAPSTTEASGAVAAPGPTVSPMIAQTTPGPVVPSTIVSTGPAaipw
AVAHPGAVQSPGPAVPPMAVQSLVPAAPSWAVVAPPGAVYIPVAHFAGPAAASRVTQSPGTVIPPLPPP
SSVLPRGVPSVPGRTVQSPGAAVHPVAAQSTGVVPPRAVQYSGAAVTSGGAAVPSGGAATPRAAASTQR
TASTEVMQVPRVAAATEATETPRIGTPAMVAEASLPVHSGAAENPGTSGSSKTAATGKKAAPGAHTGAIP
KAGSATGAVPKGGGGKGNRSGGKGNRKNKVDVDELGMGFRPGDGAASANGGQAF LAEIPES
EEGESGWTDES DSDSEPDVPQRGKGR TIPMHKRPFPYEIDEILGVRDLR KVLALLQKSDDPFIQQVAL
LTL SNNANYS CNQETIRKLGGLPIIANMINKTDPHIKEKALMAMNNLSEN YENQGR LQVYMNKVMDDIMA
SNLNSAVQVVGLKFLTNMTITNDYQHLLVNSIANFFRLLSQGGGKIKVEILKILSNFAENPDMLKLLGT
QVPSSFSSLYNSYVESEILINALTLFEIIFDNLRAEVFN YREFNKGSLFYLC TTS GVCVKKIRALANHHD
LLVKVKVIKLVNKF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001166398

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_001166398.1](#), [NP_001159870.1](#)

RefSeq Size: 3626 bp

RefSeq ORF: 2355 bp

Locus ID: 67416

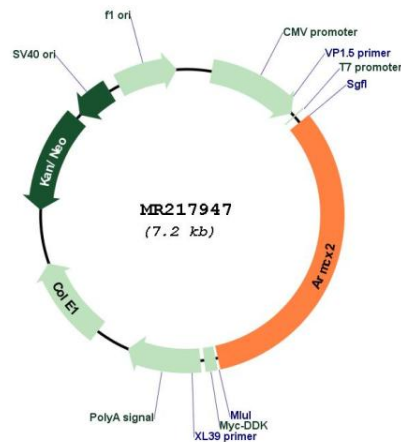
UniProt ID: [Q6A058](#)

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 MR217947