

Product datasheet for **RG216894**

ARMCX2 (NM_177949) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ARMCX2
Synonyms:	ALEX2; GASP9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216894 representing NM_177949
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCCGCTTCGGGATGCTGGCTGTGTAGCGCGGGGATAGTGATAGGGGCTGGTGCCTGGTACTGTG
 TCTACAAATACACCAGGGGAGAGACCAGACCAAGAAGAGAATGGCCAAGCCCCAAAACCGGGCTGTGGC
 TGGGACTGGAGCCAGGGCTAGAGCTGGGCTAAGAGCCGGATTACAAATCGACCTTGGGTGAGGATTCAGT
 CCCCCAACCCAGTCCGTGTGAAGCAGAGGACAGGGCCAGGATGAAGCCTCTGCTCTGGACACAGTTG
 GAGCTGAGGCAGTGGCCCCAGCTGCATCCAGCGCTGAGGCTCAGAGTGGGCGAGGCAGTCAGGCCAAGA
 GGCAGATGGAGCCGGGGTTGGGCTTAAGGCCGAATCAGTAGTTGGGGCTGCAATGGCTTCTGCAATAGCA
 CCACCTCCCGGGGTGACAGAGGCCCTTGGGGCTGCAGAAGCCCTGCAATGGCAGGGGCTCCCAAAGTGG
 CAGAAGCTCCAGAGAAGCGGAGACTTCCAGGCAGCGGTGCCTCTGGGACAGTGGTGCCTACCGAAGC
 GGCAGCACCCTAGAGTGACCGAGGGTCTGGGGTAGCAGCACCTACCAAGGTAGTGAAGCTCCCGGG
 GTGGCATCGCTACCGAGGCAGCTGAGGCTCCTGTGCCCGCAACGCCTACTGGGGCTGCAGCACCTACTG
 GGGCTGCAGAGTCTCCTGGAATTTCTGGTTCCTTAGAACAGCGGTGGTTCCTGGAACATCAGCTGCCAA
 GAAAGCAACCCCTGGGGCTCACACTGGGGCTATACCGAAAGCCACATCAGCGACTGGAGCGGTACCCAAA
 GGTGGAGGCAAGGGTGTAAACAGGTCCCGAATGGGGCAAGGGCAAGGGCAAGAAAAGCAAAGTTGAAG
 TAGACGAACTGGGGATGGGCTTCCGTCCTGGAGATGGGGCTGCAGCAGCTGCTGCAGCCTCTGCTAATGG
 CGGACAGGCTTCTGCGAGAGGTCCCTGATTCTGAGGAAGGGAGTCCGGGTGGACTGACACAGAGTCA
 GATTACAGACTCTGAGCCCGAGACCCAGCGCAGAGGGAGGGGAAGAAGACCCGTTGCCATGCAGAAGCGCC
 CCTTCTTATGAAATTGATGAGATTCTGGGTGTCGCGATCTCAGGAAGGTCTTGCCTTGCTTCAGAA
 ATCTGATGATCCTTTCATCAACAGGTAGCTTTGCTCACTCTGAGCAACAATGCCAATTATTCATGCAAT
 CAAGAGACAATCCGCAATTGGGAGGCCTCCCAATTATTGCAAAATGATCAACAAAATGATCCACACA
 TTAAGGAAAAGCCTTAATGGCCATGAATAACCTGAGTGAGAATTATGAAAATCAGGGCCGGCTTCAGGT
 GTACATGAATAAAGTGATGGATGATATCATGGCCTCTAACCTGAACTCAGCAGTTCAAGTAGTTGGACTA
 AAATTTCTAACAAACATGACTATTACTAATGACTACCAGCACCTGCTTGTCAATTCCATTGCAAACTTTT
 TCCGTTTGCTATCTCAGGGAGGTGAAAAATCAAGGTTGAGATTTTGAAAATCCTTTCGAATTTTGCTGA
 AAATCCAGATATGTTGAAGAACTTCTCAGTACCAAGTGCCAGCATCATTTAGTTCCTCTATAATTCT
 TACGTGGAATCAGAAATCCTTATTAATGCCCTTACTCTATTTGAGATTATCTATGACAATCTCAGAGCAG
 AAGTGTTAACTATAGAGAATTCAATAAAGGTTCCCTTTTTTACTTATGCACTACATCTGGAGTGTGTGT
 TAAGAAAAATTAGAGCCTTAGCAATACCATGACCTCTTAGTGAAAGTGAAAGTTATAAACTAGTGAAC
 AAATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG216894 representing NM_177949
 Red=Cloning site Green=Tags(s)

MSRVRDAGCVAAGIVIGAGAWYCVYKYTRGRDQTKRMAKPKNRAVAGTGARARAGLRAGFTIDLGSFSG
 PPTPVRAEADRAQDEASALDTVGAEEVAPAAASSAEASQAGSQAQEAADGAGVGPKAESVVGAAASAIA
 PPPGVTEALGAAEAPAMAGAPKVAEAPREAETSRVAVPPGTVPTEAAAPTETEGPGVAAPTKVAEAPG
 VASPTAAEAPVPATPTGAAAPTGAASPGTSGSPRTAVVPGTSAKKATPGAHTGAIPKATSATGAVPK
 GGGKGVTRSRNGGKGGKSKVEVDELGMGFRPGDGAASAAAAASANGGQAFLEVPDSEEGESGWTDTES
 DSDSEPETQRRGRGRRPVAMQKRPFPYEIDEILGVRDLRKVLALLQKSDDPFIQVALLTSLNNANYSCN
 QETIRKLGLPIIANMINKTDPHIKEKALMAMNNLSENYENQRLQVYMNKVMDDIMASNLNSAVQVVGL
 KFLTNMTITNDYQHLLVNSIANFFRLLSQGGGKIKVEILKILSNFAENPDMLKKLLSTQVPASFSSLYNS
 YVESEILINALTLFEIYDNLRAEVFNREFNKGSLFYLCCTSGVCYKKIRALANHHDLKVVKVIKLVN
 KF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177949

ORF Size: 1896 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_177949.2](#)

RefSeq Size: 2863 bp

RefSeq ORF: 1899 bp

Locus ID: 9823

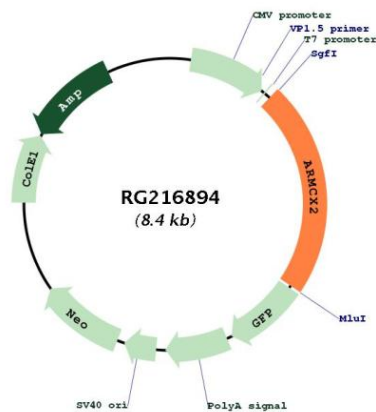
UniProt ID: [Q7L3I1](#)

Cytogenetics: Xq22.1

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein containing a potential N-terminal transmembrane domain and multiple armadillo (arm) repeats. Proteins containing arm repeats are involved in development, maintenance of tissue integrity, and tumorigenesis. This gene is located in a cluster of related genes on chromosome X. There is a pseudogene for this gene on chromosome 7. Alternative splicing in the 5' UTR results in multiple transcript variants encoding the same protein. [provided by RefSeq, Aug 2013]

Product images:



Circular map for RG216894