

Product datasheet for **MG205906**

Armcx3 (NM_027870) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Armcx3 (NM_027870) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Armcx3
Synonyms:	1200004E24Rik; AI450003; ALEX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205906 representing NM_027870 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGCTACGCCAGGAAAGTAGGCTGGGTGACTGCAGGTCTGGTGATTGGGGCTGGAGCCTGCTATTGCA
TTTACAGATTGACCCGAGGAAGAAAGCAGAACAAGGAGAAAATGGCTGAGGGTGGCTCTGGTGATGTGGA
TGATGCTGGGGACTGTTCTGGGGCCAGGTATAATGACTGGTCTGATGATGATGATGACAGTAACGAGAGC
AAGAGTATAGTTTGGTACCCACCTTGGGCCGGATTGGCACTGAAGCAGGGACCAGAGCCAGAGCCAGGG
CAAGAGCCAGGGCTACCGGGCTCGAAGAGCTGTACAGAAAAGGGCTTCTCCTAATTCAGACGATACTGT
TTTGTCACCTCAAGAGTTACAGAAAGTACTTTGTTTGGTTGAGATGTCTGAAAAGCCTTATATTCTTGAA
GCAGCTTTAATTGCTCTGGGTAATAATGCTGCTTATGCATTTAATAGAGATATTATTCGAGATTTGGGTG
GTCTCCCAATTGTTGCAAAGATTCTCAATACACGAGATCCCATTTGTAAGGAAAAGGCTTTAATTGTCT
AAATAACTTGAGCGTGAATGCCGAAAATCAGCGCAGGCTTAAGGTATACATGAATCAAGTGTGTGATGAC
ACAGTCACTTCCCGATTGAATTCCTCTGTGCAGCTGGCTGGACTCAGATTGCTTACCAATATGACTGTTA
CTAACGAGTATCAGCATATCCTTGCTAATTCATTTCCAGACTTCTTTCTTTATTTTCAGCGGGGAATGA
AGAAACCAAACCTCAGGTTCTGAAGCTCCTTTTGAATCTGGCTGAAAATCCAGCCATGACTAGAGAACTG
CTCAGGGCTCAGGTGCCATCTTCACTGGGCTCCCTCTTTAATAAGAAGGAGTACAAGAGGTTATTCTTA
AACTTCTGATCATTTTTGAGAATATCAATGACAATTTCAAATGGGAAGAGAACGAGCCTGCTCAGAAATCA
CTTTAGTGAGGGCTCCCTTTTTTCTTCTTAAAAGAATTTCAAGTGTGTGCTGATAAAGTTCTAGGAATC
GAGAGCCGTATGATTTCCAGGTGCGAGTCAAGGTTGGAAAGTTGTGGCCAACTGACTGAAAGGATGT
TCCCAAAGAGTCAGGAA

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205906 representing NM_027870
 Red=Cloning site Green=Tags(s)

MGYARKVGVWVTAGLVIGAGACYCIYRL TRGRKQNKKEKMAEGGSGDVDDAGDCSGARYNDWSDDDDSNES
 KSIWVYPPWARIQTEAGTRARARARARATRRARRAVQKRASPNSSDVTLSPELQKVLCLVEMSEKPYILE
 AALIALGNNAAYAFNRDIIRDLGGLPIVAKILNTRDPIVKEKALIVLNNLSVNAENQRRLKVYMNQVCD
 TVTSRLNSSVQLAGLRLLTNMTVTNEYQHILANSISDFRFLFSAGNEETKLQVLKLLLNLAENPAMTREL
 LRAQVPSSLGSLFNKKEYKEVILKLLIIFENINDNFKWEENEPQNHFFSEGLFFFLKEFQVCADKVLGI
 ESRHDFQVRVKVGKFAKLTERMFPSQE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027870

ORF Size: 1137 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_027870.4](#)

RefSeq Size: 3356 bp

RefSeq ORF: 1140 bp

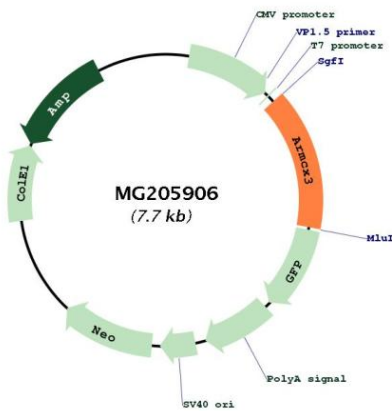
Locus ID: 71703

UniProt ID: [Q8BHS6](#)

Cytogenetics: X E3

Gene Summary: Regulates mitochondrial aggregation and transport in axons in living neurons (PubMed:22569362, PubMed:23844091). May link mitochondria to the Trak2-kinesin motor complex via its interaction with Miro and Trak2 (PubMed:22569362). Mitochondrial distribution and dynamics is regulated through Armcx3 protein degradation, which is promoted by PCK and negatively regulated by Wnt1 (PubMed:23844091). Enhances the Sox10-mediated transactivation of the neuronal acetylcholine receptor subunit alpha-3 and beta-4 subunit gene promoters (PubMed:19304657).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205906