

Product datasheet for **MR209769**

Atp13a2 (BC023746) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp13a2 (BC023746) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp13a2
Synonyms:	1110012E06Rik; AA589443
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR209769 representing BC023746
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAGCACGCCCCAGCTATGGGACCCTGACGACAGGGACGTCAATCGATCCCCTCAGCTCCTCAG
CTTCATCCGTGAGGCTCAGCGGCTACTGTGGCAGTCCATGGAGGGCCATCGGCTATCACGCCGCGGTCTG
GATGCTGGCCGGGATCCCTTGGCTGCTATTCCGCTGGAAGCCCTTGTGGGGCGTGCGCCTGCGCCTGAAG
CCATGCAGCCTGGCCACGCCGAAACACTCGTTATAGAAATAAAAGACAAAGAGGGTAGCTCCAGACAGC
TCTTCACGGTTCAGGTGCAGACTGAGGCTCTTGCCAGGGCAGCCTGGAGCTGCCCCACAGGCCAGGC
AGAGGATGGCCGGAGCCAGGCAGCCGTGGGAGTGACACCAGAGGGCACATGGCAGGACACCTCCGAACTC
CACAGGCAGGAAGAGGCAAAGCAGGTACTGCGCTATTATGTCCTCAAGGTCAACGCTACGTCTGGATGG
AAACCCAGCAAGCCTTCTGCCAAGTCAGCCTGCTGGACCACAGTCGTACCTGTGATGACGTCCACTGCTC
CAGCTCCGGCCTCAGCCTCCAAGACCAAGCTACGAGGAAGACCATTTACGGCCCCAATGTGATCAGTATT
CCTGTCAAGTCTACCTGCAGCTGCTGGCGGATGAGGCCCTGAATCCCTACTATGGGTTCCAAGCCTTCA
GCATCGCACTGTGGCTGGCCGACCACTACTACTGGTATGCTCTCTGCATCTTCTCATCTCAGCCATCTC
CATCTGCCTGGCTCTGTACAAGACCAGAAAGCAAAGCTTGACCCTGAGGGACATGGTCAAGCTGTCCGTG
CGGGTGCAGGTGTGCCGACCCGGAGGAGGAAGAGTGGGTGGACTCCAGTGAGCTGGTGCCCGGAGACT
GCCTGGTGTGCCCCAGGAGGGCGGGGTGATGCCATGCGACGCGGCTCTGGTGGCCGGGAGTGTGTGGT
CAACGAGAGCTCCCTGACAGGGGAGAGCACCCCTGTGCTGAAGACGGCCCTGCCAGAGGGGCCAAAGCCC
TACTGCCAGAGACCCACCGCGGCACACCCTCTTCTGTGGCACCTCATTCTGCAGGCCGAGCCTACG
TGGGACCCCGTGTGCTAGCAGTGGTACTCGGACAGGGTTCTGCACAGCCAAAGGGGGCCTGGTGAAGTC
CATCCTACACCCAAGGCCCATCAGCTTCAAGTCTACAAACACAGCATGAAGTTTGTGGCTGCGCTCTCC
GTCCTGGCTCTGCTCGGCACCGTCTACAGCATCGTCATCCTCTACCGAAACCGGGTACCTGTGAGGGAGA
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GGGGCAAGCTGCGGCTCGTGTGCTTTGACAAGACAGGCACCCTCACAGAGGACGGCTTGGACGTAATGG
GCGTAGTGCCCTAAAGGGCAGGTGTTGCTGCCACTGGTCCCAGAGCCCCGCCACCTGCCCTGGGGCC
CCTCCTGCGAGCACTGGCCACCTGTATGCCCTCAGCCAGCTACATGACACCCCGGTGGGCGACCCCATG
GATCTGAAGATGGTGGAGTCTACAGGCTGGTCTTAGAGGAGGGTCCAGCTGCAGGCTCAGCACCTGGGA
GCCAGGTCTTGGTGGTAATGAGACCCCCACCGGGGGCCCTCGGCAGCAGGTAAGCTGCAGAGTGACTGG
GCCTTGGGGCCTTGGAGTGGGCCTCAGCCAGCCCTCAGCTCTCCTCCACCCACAGGAAGGCCACCAG
TGCCAGTCAGCGTCTCTGCCGCTTCCCCTTCTCTCTGCCCTGCAGCGGATGGATGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209769 representing BC023746
 Red=Cloning site Green=Tags(s)

MGSTPPSYGTLTTGTSIDPLSSSASSVRLSGYCGSPWRAIGYHAAVWMLAGIPWLLFRWKPLWGVRLRLK
 PCSLAHAETLVIEIKDKEGSSRQLFTVQVQTEALVOGSLELPPQAQAEDGRSQAAVGVTPEGTWQDTSEL
 HRQEEAKQVLRYYVLQGQRYVWVMTQQAFQVSLLDHSRTCDDVHCSSSLSLQDQATRKTIYGPVVISI
 PVKSYLQLLADEALNPYYGFQAFSIALWLADHYWYALCIFLISAIISICLALYKTRKQSLTRDMVKLSV
 RVQVCRPGGEEWVDSSELVPGDCLVLPQEGVMPCDAALVAGECVVNESSLTGESTPVLKTALPEGPKP
 YCPETHRRHTLFCGTLILQARAYVGPVRLAVVTRTGCTAKGGLVSSILHPRPISFKFYKHSKMFVAALS
 VLALLGTVYSIVILYRNRVPVREIVIRALDLVTVVPPALPAAMTVCTLYAQSRLRAQGIFCIHPLRINL
 GGKRLRVCFDKTGTLTEDGLDVMGVVPLKGQVLLPLVPEPRHLPLGPLLRALATCHALSQQLHDTVPVGDPM
 DLKMWESTGWVLEEGPAAGSAPGSQVLVVMRPPPGPRQQVSCRVTGPWGLGVGLSQPLSSPPTHRKSHQ
 CQSASSAASPSPSPCSGMMW

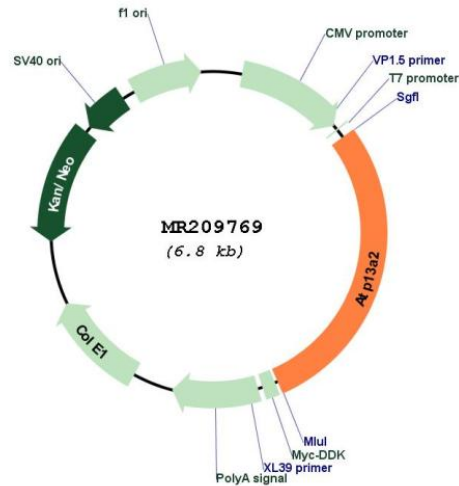
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: BC023746

ORF Size: 1950 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: [BC023746.1](#)

RefSeq Size: 4272 bp

RefSeq ORF: 1952 bp

Locus ID: 74772

Cytogenetics: 4 D3

MW: 156.6 kDa

Gene Summary: ATPase that plays a role in intracellular cation homeostasis and the maintenance of neuronal integrity. Required for a proper lysosomal and mitochondrial maintenance.[UniProtKB/Swiss-Prot Function]