

Product datasheet for **MG209626**

Atp2b2 (BC075643) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2b2 (BC075643) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp2b2
Synonyms:	D6Abb2e; dfw; Gena300; jog; PMCA2; Tmy; wms; wri
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209626 representing BC075643
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGACATGACCAACAGCGACTTTTACTCCAAAACCAAAGAAATGAGTCGAGCCATGGGGCGAGT
 TCGGGTGACCATGGAGGAGCTGCGCTCCCTCATGGAGCTGCGGGCACCGAGGCTGTGGTCAAGATCAA
 GGAGACGTATGGGACACTGAAGCCATCTGCCGCGCCTCAAACCTCGCTGTTGAAGTTTACCAGGC
 ACTGCTCCAGACTTGAAAAGAGGAAACAGATTTTGGGCAAACTTCATACCTCCAAAGAAACAAAA
 CCTTCTCGACGCTGGTGTGGGAAGCGCTACAGGACGTGACACTTATCATCTGGAGATCGCGCCATCAT
 CTCCTGGGACTGTCCTTCTACCACCCACGGGAGAGCAATGAAGGATGTGCCACGGCCAGGGTGGG
 GCAGAGGATGAAGGTGAAGCAGAAGCAGGCTGGATTGAGGGGGCTGCCATCTGCTGTGAGTGTGAGT
 TGGTCTGGTACAGCCTTCAATGACTGGAGTAAGGAGAAACAGTTCGGGGCCTGCAGAGCCGAATTGA
 GCAGGAGCAGAAGTTCAGTGTGGTCCGGGCGGCCAGGTGGTTCAGATCCCTGTGGCCGAGATCGTGGT
 GGGGACATTGCCAGATCAAATATGGTGACCTTCTCCCGCTGATGGCCTTTCATCCAGGGAAATGACC
 TCAAAATTGATGAAAGCTCACTCACAGGGGAATCTGACCAGGTGCGCAAGTCTGTGGATAAGGACCCAT
 GTTGCTGTGAGGAACCATGTGATGGAGGGCTCAGGACGGATGGTGGTACTGCTGTGGGTGGAAGTCT
 CAGACTGGCATCATATTTACCCTGCTTGGGGCTGGTGGTGAAGAGGAAGAGAAGAAAGACAAAAAGCCA
 AGCAGCAGGATGGGGCAGCTGCCATGGAGATGCAGCCTCTGAAGAGTGCAGAGGGCGCGCATGCAGATGA
 CAAGAAGAAAGCCAACATGCACAAGAAAGAGAAGTCGGTGCTTCAGGGCAAGCTCACAAACTGGCTGTG
 CAGATAGGCAAGCGGGCCTGGTGTGTCGGCCATCACAGTATCATCTGGTACTTACTTCACCGTGG
 ACACCTTCGTGGTCAACAAGAAGCCATGGCTGACGGAATGCACACCCGCTACGTACAGTACTTTGTCAA
 GTTCTTTCATCATTGGTGTGACGGTGTGGTGGTGGTGTGCCCCGAGGGCCTCCCTCTGGCTGTACCATC
 TCACTGGCCTATTCTGTGAAGAAATGATGAAGGACAACAACCTGGTACGCCACCTGGATGCCTGTGAGA
 CCATGGGCAATGCCACAGCCATCTGCTCAGACAAGACAGGAACGCTGACCACCAACCGCATGACCGTGGT
 CCAGGCCATGTGCGGTGACGTCCACTACAAGGAGATCCCCGATCCCAGCTCCATCAATGCCAAGACGCTG
 GAGCTGCTGGTCAACGCCATTGCCATCAACAGCGCCTACACCACCAAGATCCTTCCCCAGAAAAAGAGG
 GAGCCCTGCCCGCAGGTGGGCAACAAGACAGAGTGCAGGCTGCTGGGCTTTGTGCTGGACTTGAGGCA
 GGACTACGAGCCGGTGCAGCCAGATGCCAGAGGAGAAGCTGTATAAGGTGTACACCTTCAACTCCGTG
 CGCAAGTCCATGAGCACCCTCATCAAGATGCCCGACGAGAGCTTCCGCATGTACAGCAAGGAGCACTGGG
 CGGAACCCACACAGCAGAGAGGGAACCAGACCTTCTCTGGCAGCCATGCTGTTTGAAGTCTTTTCACT
 CCTTAGGCCTTGGGCGGGTTCCTTGGGGTCACTCTGGAGCAGAGAGTGGCGTGGATTTTTTTTTCTCCA
 AACATAAAAAA

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209626 representing BC075643
 Red=Cloning site Green=Tags(s)

MGDMTNSDFYSKNQRNESSHGGEFGCTMEELRSLMELRGTEAVVVIKETYGDTEAICRRLKTSPEVGLPG
 TAPDLEKRKQIFGQNFIPPKPKTFLQLVWEALQDVTLLIILEIAAIIISLGLSFYHPPGESNEGCATAQGG
 AEDEGEAEAGWIEGAAIILLVVICVVLVAFNDWSKEKQFRGLQSRIEQEKFVVRAGQVVQIPVAEIVV
 GDIAQIKYGDLLPADGLFIQGNLKIDESSLTGESDQVRKSVDKDPMLLSGTHVMEGSGRMVVTAVGVNS
 QTGIIFTLGAGGEEEEKDKKAKQQDGAAMEMQPLKSAEGGDADKKKANMHKKEKSVLQGLTKLAV
 QIGKAGLVMSAITVIIILVLYFTVDTFVFNKPKWLTCTPYVYQYFVKFFIIGVTVLVAVPEGLPLAVTI
 SLAYSVKMMKDNLLVRHLDACETMGNATAICSDKTGTLTNRMTVVQAYVGDVHYKEIPDPSSINAKTL
 ELLVNAIAINSAYTTKILPPEKEGALPRQVGNKTECGLLGFVLDLRQDYEPVRSQMPEEKLYKYVTFNSV
 RKSMSTVIKMPDESFRMYSKEHWAEPQQQRGNQTLFWQPCCLNSFSLLRPWAGLPWGHLEQRVAWIFFSP
 KHKK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: BC075643

ORF Size: 1902 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: [BC075643.1](#)

RefSeq Size: 4973 bp

RefSeq ORF: 1904 bp

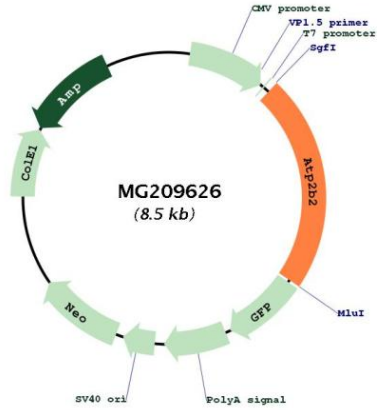
Locus ID: 11941

Cytogenetics: 6 52.85 cM

Gene Summary:

This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell. Plays a role in maintaining balance and hearing. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209626