

## Product datasheet for **MR209626**

### **Atp2b2 (BC075643) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp2b2 (BC075643) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp2b2
Synonyms:	D6Abb2e; dfw; Gena300; jog; PMCA2; Tmy; wms; wri
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209626 representing BC075643  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGTGACATGACCAACAGCGACTTTTACTCCAAAACCAAAGAAATGAGTCGAGCCATGGGGCGAGT  
 TCGGGTGACCATGGAGGAGCTGCGCTCCCTCATGGAGCTGCGGGGCACCGAGGCTGTGGTCAAGATCAA  
 GGAGACGTATGGGGACTGAAGCCATCTGCCGCGCCTCAAACCTCGCCTGTTGAAGGTTTACCAGGC  
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 CCTTCTGCGAGCTGGTGTGGGAAGCGCTACAGGACGTGACACTTATCATCCTGGAGATCGCGCCATCAT  
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 GGACTACGAGCCGGTGCAGCCAGATGCCAGAGGAGAAGCTGTATAAGGTGTACACCTTCAACTCCGTG  
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 CGGAACCCACACAGCAGAGAGGGAACCAGACCTTCTCTGGCAGCCATGCTGTTTGAAGTCTTTTCACT  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

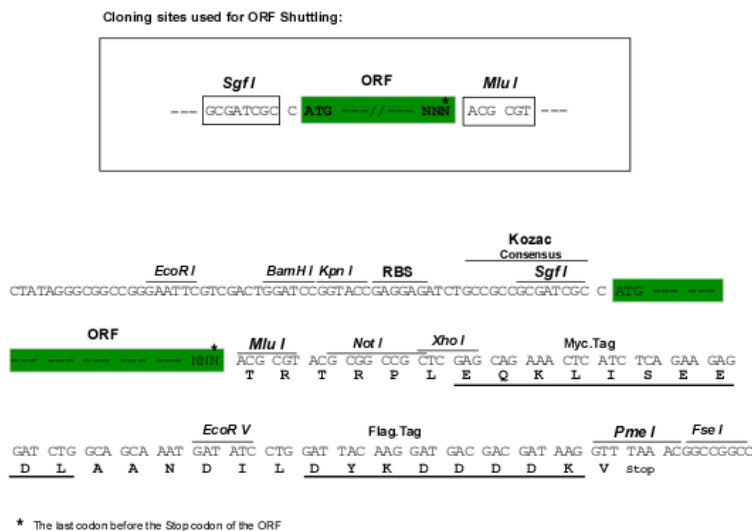
**Protein Sequence:** >MR209626 representing BC075643  
Red=Cloning site Green=Tags(s)

```
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AEDEGEAEAGWIEGAAIILLSVICVVLVAFNDWSKEKQFRGLQSRIEQEQKFTVVRAGQVVQIPVAEIVV
GDIAQIKYGDLLPADGLFIQGNLKDIDESSLTGESDQVRKSVDKDPMLLSGTHVMEGSGRMVVTAVGVNS
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QIGKAGLVMSAITVIIILVLYFTVDTFVFNKPKWLTCTPVYVQYFVKFFIIGVTVLVAVPEGLPLAVTI
SLAYSVKMMKDNLLVRHLDACETMGNATAICSDKTGTLTNRMTVVQAYYVDVHYKEIPDPSSINAKTL
ELLVNAIAINSAYTTKILPPEKEGALPRQVGNKTEGLLGFVLDLRQDYEPVRSQMPEEKLYKVYTFNSV
RKSMSTVIKMPDESFRMYSKEHWAAPTQQRGNQTFWLQPCCLNSFSLLRPWAGLPWGHLEQRVAWIFFSP
KHKK
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

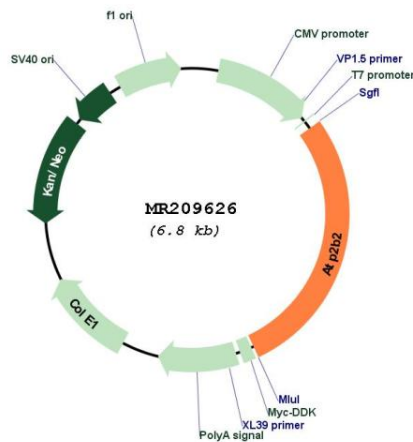
**Locus ID:** 11941

**Cytogenetics:** 6 52.85 cM

**MW:** 182.3 kDa

**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 MR209626