

## Product datasheet for MR231675

### Atp2b2 (NM\_009723) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp2b2 (NM\_009723) 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)  
**ORF Nucleotide Sequence:** >MR231675 representing NM\_009723  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGGTGACATGACCAACAGCGACTTTTACTCCAAAACCAAAGAAATGAGTCGAGCCATGGGGGCGAGT  
 TCGGGTGCACCATGGAGGAGCTGCGCTCCCTCATGGAGCTGCGGGGCACCGAGGCTGTGGTCAAGATCAA  
 GGAGACGTATGGGGACTGAAGCCATCTGCCGGCGCCTCAAACCTCGCCTGTTGAAGGTTTACCAGGC  
 ACTGCTCCAGACTTGAAAAGAGGAAACAGATTTTGGGCAAACTTCATACCTCAAAGAAACCAAAAA  
 CCTTCCTGCAGCTGGTGTGGGAAGCGCTACAGGACGTGACTTATCATCCTGGAGATCGCGGCCATCAT  
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 GCAGAGGATGAAGGTGAAGCAGAAGCAGGCTGGATTGAGGGGGCTGCCATCCTGTCTGTCAGTCATCTGTG  
 TGGTCTGGTACAGCCTTCAATGACTGGAGTAAGGAGAAACAGTTCCGGGGCCTGCAGAGCCGAATTGA  
 GCAGGAGCAGAAGTTCAGTGTGGTCCGGGCCGGCCAGGTGGTTCAGATCCCTGTGGCCGAGATCGTGGTC  
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 GTTGCTGTGAGGAACCCATGTGATGGAGGGCTCAGGACGGATGGTGGTACTGCTGTGGGTGTAAGTCT  
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 CAAGAAGAAAGCCAACATGCACAAGAAAGAGAAGTGGTGGTTCAGGGCAAGCTACCAAACCTGGCTGTG  
 CAGATAGGCAAGGCGGGCCTGGTGTGTCGGCCATCACAGTGATCATCCTGGTACTCTACTTCACCGTGG  
 ACACCTTCGTGGTCAACAAGAAGCCATGGCTGACGGAATGCACACCCGTCTACGTACAGTACTTTGTCAA  
 GTTCTTCATCATTGGTGTGACGGTGTGGTGGTGTGCTGTGCCGAGGGCCTCCCTCTGGCTGTACCATC  
 TCACTGGCCTATTCTGTGAAGAAAATGATGAAGGACAACAACCTGGTACGCCACCTGGATGCCTGTGAGA  
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 CCAGGCCTATGTCGGTACGCTCCACTACAAGGAGATCCCCGATCCAGCTCCATCAATGCCAAGACGCTG



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GAGCTGCTGGTCAACGCCATTGCCATCAACAGCGCCTACACCACCAAGATCCTTCCCCAGAAAAAGAGG  
GAGCCCTGCCCGGCAGGTGGGCAACAAGACAGAGTGCGGCCTGCTGGGCTTTGTGCTGGACTTGAGGCA  
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CAGAGCGGGAGCTTCGCCGTGGCCAGATCCTGTGGTTCGGGGCCTGAATCGGATCCAGACACAGATCCG  
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AACTTCATGGCTCATCCTGAATTCGGATCGAAGATTCCCAGCCCCACATCCCCCTCATCGATGACACCG  
ACCTGGAAGAAGATGCCGCGCTCAAGCAGAAGTCCAGCCCCCGTCTCGCTCAACAAGAACAATAGCGC  
CATCGACAGCGGGATCAACCTGACGACCGACACGAGCAAATCAGTACCTCTTCAAGTCCAGGGAGCCCC  
ATCCACAGCCTGGAGACGTGCTT

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR231675 representing NM\_009723  
 Red=Cloning site Green=Tags(s)

MGDMTNSDFYSKNQRNESSHGGEFGCTMEELRSLMELRGTEAVVVIKETYGDTEAICRRLKTSPEGLPG  
 TAPDLEKRKQIFGQNFIPPKPKTFLQLVWEALQDVTLIILEIAAIIISLGLSFYHPPGESNEGCATAQGG  
 AEDEGEAEAGWIEGAAIILLSVICVVLVAFNDWSKEKQFRGLQSRIEQEQKFTVVRAGQVVQIPVAEIVV  
 GDIAQIKYGDLLPADGLFIQGNLKDIDESSLTGESDQVRKSVDKDPMLLSGTHVMEGSGRMVVTAVGVNS  
 QTGIIFTLGAGGEEEEKKDKAKQQDGAAMEMQPLKSAEGGDADDKKKANMHKKEKSVLQGLTKLAV  
 QIGKAGLVMSAITVIIILVLYFTVDTFVFNKPKWLTCTPVYVQYFVKFFIIGVTVLVVAVPEGLPLAVTI  
 SLAYSVKMMKDNLLVRHLDACETMGNATAICSDKTGTLTNRMTVVQAYYVDVHYKEIPDPSSINAKTL  
 ELLVNAIAINSAYTTKILPPEKEGALPRQVGNKTECGLLGFVLDLRQDYEPVRSQMPEEKLYKVYTFNSV  
 RKMSTVIKMPDESFRMYSKGASEIVLKKCKILSGAGEARVFRPRDRDEMVKKVIIEPMACDGLRTICVA  
 YRDFPSSPEPDWDNENDILNELTCICVVGIEDPVRPEVPEAIRKCQRAGITVRMVTGDNINTARAIKIC  
 GIHPGEDFLCLEGKEFNRRIRNEKGEIEQERIDKIWPKLRVLARSSPTDKHTLVKGIIDSTHTEQRQVV  
 AVTGDGTNDGPALKKADVGFAMGIAGTDVAKEASDIILTDDNFSSIVKAVMWGRNVYDSISKFLQFQLTV  
 NVVAVIVAVFTGACITQDSPLKAVQMLWVNLIMDTFASLALATEPPTETLLLRKPYGRNKPLISRTMMKNI  
 LGHAVYQLTLIFTLLFVGEKMFQIDSGRNAPLHSPSEHYTIIFNTFVMMQLFNEINARKIHGERNVFDG  
 IFRNPIFCTIVLGTFAIQIVIVQFGGKPFSCSPLQLDQWMCIFIGLGELVWQVIATIPTRKFLKLEA  
 GRLTQKEEIPPEELNEDVEEIDHAERELRRGQILWFRGLNRIQTQIRVVKAFRSSLYEGLEKPEPRTSIH  
 NFMHPEFRIEDSQPHIPLIDDDLEEDAALKQNSSPPSSLNKNSAIDSGINLTTDTSKATSSSPGSP  
 IHSLETSL

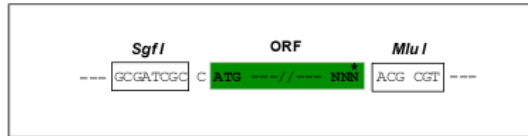
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



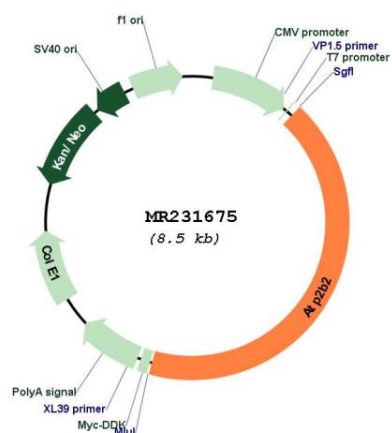
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009723

**ORF Size:** 3594 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_009723.6</a>
<b>RefSeq Size:</b>	7111 bp
<b>RefSeq ORF:</b>	3597 bp
<b>Locus ID:</b>	11941
<b>UniProt ID:</b>	<a href="#">Q9R0K7</a>
<b>Cytogenetics:</b>	6 52.85 cM
<b>MW:</b>	132.6 kDa
<b>Gene Summary:</b>	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 MR231675