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Product datasheet for MC223909

Atp2b2 (NM_001036684) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2b2 (NM_001036684) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp2b2
Synonyms:	D6Abb2e; dfw; Gena300; jog; PMCA2; Tmy; wms; wri
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223909 representing NM_001036684 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGTGACATGACCAACAGCGACTTTTACTCCAAAAACCAAAGAAATGAGTCGAGCCATGGGGGCGAGT TCGGGTGCACCATGGAGGAGCTGCGCTCCCTCATGGAGCTGCGGGGCACCGAGGCTGTGGTCAAGATCAA GGAGACGTATGGGGACACTGAAGCCATCTGCCGGCGCCTCAAAACCTCGCCTGTTGAAGGTTTACCAGGC ACTGCTCCAGACTTGGAAAAGAGGAAACAGATTTTTGGGCAAAACTTCATACCTCCAAAGAAACCAAAAA CCTTCCTGCAGCTGGTGTGGGAAGCGCTACAGGACGTGACACTTATCATCCTGGAGATCGCGGCCATCAT CTCCCTGGGACTGTCCTTCTACCACCCACCGGGAGAGAGCAATGAAGGATGTGCCACGGCCCAGGGTGGG GCAGAGGATGAAGGTGAAGCAGAAGCAGGCTGGATTGAGGGGGCTGCCATCCTGCTGTCAGTCATCTGTG TGGTCCTGGTCACAGCCTTCAATGACTGGAGTAAGGAGAAACAGTTCCGGGGCCTGCAGAGCCGAATTGA GCAGGAGCAGAAGTTCACTGTGGTCCGGGCCGGCCAGGTGGTTCAGATCCCTGTGGCCGAGATCGTGGTC GGGGACATTGCCCAGATCAAATATGGTGACCTTCTTCCCGCTGATGGCCTCTTCATCCAGGGAAATGACC TCAAAATTGATGAAAGCTCACTCACAGGGGAATCTGACCAGGTGCGCAAGTCTGTGGATAAGGACCCCAT GTTGCTGTCAGGAACCCATGTGATGGAGGGCTCAGGACGGATGGTGGTTACTGCTGTGGGTGTGAACTCT CAGACTGGCATCATATTTACCCTGCTTGGGGCTGGTGGTGAAGAGGAAGAGAAGAAAGACAAAAAAGCCA AGCAGCAGGATGGGGCAGCTGCCATGGAGATGCAGCCTCTGAAGAGTGCAGAGGGCGGCGATGCAGATGA CAAGAAGAAAGCCAACATGCACAAGAAAGAGAAGTCGGTGCTTCAGGGCAAGCTCACCAAACTGGCTGTG CAGATAGGCAAGGCGGGCCTGGTGATGTCGGCCATCACAGTGATCATCCTGGTACTCTACTTCACCGTGG ACACCTTCGTGGTCAACAAGAAGCCATGGCTGACGGAATGCACACCCGTCTACGTACAGTACTTTGTCAA GTTCTTCATCATTGGTGTGACGGTGCTGGTGGTCGCTGTGCCCGAGGGCCTCCCTCTGGCTGTCACCATC TCACTGGCCTATTCTGTGAAGAAAATGATGAAGGACAACAACCTGGTACGCCACCTGGATGCCTGTGAGA CCATGGGCAATGCCACAGCCATCTGCTCAGACAAGACAGGAACGCTGACCACCAACCGCATGACCGTGGT CCAGGCCTATGTCGGTGACGTCCACTACAAGGAGATCCCCGATCCCAGCTCCATCAATGCCAAGACGCTG GAGCTGCTGGTCAACGCCATTGCCATCAACAGCGCCTACACCACCAAGATCCTTCCCCCAGAAAAAGAGG

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GAGCCCTGCCCCGGCAGGTGGGCAACAAGACAGAGTGCGGCCTGCTGGGCTTTGTGCTGGACTTGAGGCA
GGACTACGAGCCGGTGCGCAGCCAGATGCCAGAGGAGAAGCTGTATAAGGTGTACACCTTCAACTCCGTG
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ACCTGGAAGAAGATGCCGCGCTCAAGCAGAACTCGAGCCCGCCGTCCTCGCTCAACAAGAACAATAGCGC
CATCGACAGCGGGATCAACCTGACGACCGACACGAGCAAATCAGCTACCTCTTCAAGTCCAGGGAGCCCC
ATCCACAGCCTGGAGACGTCGCTTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001036684

Insert Size: 3597 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_001036684.2, NP_001031761.1

RefSeq Size: 6922 bp

RefSeq ORF: 3597 bp

Locus ID: 11941

UniProt ID: Q9R0K7

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]
Transcript Variant: This variant (2) differs in the 5' UTR and coding region, compared to variant 3. These differences result in a shorter protein (isoform 1), compared to isoform 2. Variants 1 and 2 encode the same protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.