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Product datasheet for MC223959

Atp2b4 (NM_213616) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2b4 (NM_213616) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Atp2b4
Synonyms:	Pmca4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223959 representing NM_213616 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGACGAATCCACCAGGACAAAGCGTGTCAGCCAACACAGTGGCTGAGAGCCATGAAGGGGAGTTTGGCT GCACCTTAATGGACCTGCGAAAGCTCATGGAGCTTCGTGGAGCTGATGCAGTGGCCCAGATCAGTGCCCA CTACGGAGGGGTACAGGAAATCTGCACTAGACTGAAAACCTCCCCTATAGAAGGTCTATCTGGGAACCCT GCAGATTTGGAGAAGCGTAGACTTGTTTTTGGAAAGAACGTGATACCTCCAAAAAGGCCCAAGACTTTCT TAGAATTAGTGTGGGAAGCCCTGCAGGATGTCACGCTCATCATCCTAGAGATCGCAGCCATCATCTCCCT GGTCCTGTCCTTCTACCGACCTCCGGGTGGAGATAATGAAATCTGTGGTCACATTGCAAGTAGCCCAGAA GAAGAGGAGGAAGGAGAAACTGGCTGGATTGAGGGGGCGGCCATTCTCGCCTCGGTGATCATTGTGGTAC TCGTGACAGCCTTCAATGACTGGAGCAAAGAGAAGCAGTTCCGGGGGCTGCAGAGTCGCATCGAACTGGA GCAAAAATTCTCCATTATCCGGAATGGTCAGCTTATCCAACTCCCAGTGGCTGAGATTGTGGTGGGAGAT ATTGCCCAGATCAAATACGGTGACCTGCTGCCTGCAGATGGAATTCTAATCCAGGGAAATGATCTGAAGA TTGACGAGAGCTCTCTGACAGGAGAATCAGATCATGTCAAGAAGACTCTGGACAAAGACCCCATGTTGCT CTCGGGGACTCACGTGATGGAAGGTTCTGGACGGATGGTAGTGACTGCTGTGGGGGTCAACTCCCAGACT GGAATCATCTTCACCCTCTTAGGAGCTAGTGAGGAAGAAGATGATGATGACAAGAAGAAGAAAGGTAAAA AACAAGGAGCCCCTGAAAATCGCAACAAAGCAAAGACCCAGGATGGAGTGGCCTTGGAAATCCAGCCACT CAACAGCCAAGAGGGGCTCGACAGTGAGGACAAGGAGAAGAAAATAGCCAGGATACCCAAGAAAGAGAAG TCGGTGCTGCAAGGCAAACTCACACGCCTGGCTGTGCAGATCGGGAAGGCGGGTCTGATCATGTCTGTCC TCACAGTTGTCATCTTGATTCTGTACTTTGTGGTTGACAATTTCGTGATCCAGCGCCGAGAATGGCTTCC TGAGTGCACTCCTGTCTATATCCAGTATTTTGTCAAGTTCTTCATCATCGGAGTCACTGTATTGGTAGTG GCTGTGCCAGAGGGGCTGCCACTGGCTGTCACCATCTCACTAGCCTACTCTGTAAAGAAAATGATGAAGG ACAACAACTTGGTACGGCACTTGGATGCTTGTGAGACAATGGGCAATGCCACAGCCATTTGCTCCGATAA GACAGGCACACTGACCATGAACCGCATGACCGTGGTGCAAGCTTACATCGGGGGCACTCACTACCGCCAG ATCCCACAGCCCGACGTCTTCCCACCCAAGGTTCTGGAGCTCATCGTCAATGGCATCTCTATCAACTGTG

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CTTACACGTCTAAGATTCAGCCTCCAGAAAAGGAGGGAGGCCTACCCCGACAAGTAGGCAACAAGACAGA
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CTGAGGGAATGGACGAGATTGACCTTGCCGAGATGGAGCTTCGCCGAGGCCAGATCCTCTGGGTCCGTGG
CCTGAACCGGATTCAGACTCAGATCAGAGTCGTCAAACTGTTCCATAATAACCATGAAGTTGCTCATAAA
CCCAAGAATCGTAGCTCCATCCACACCTTCATGACCCAACCTGAATACCCCGCAGATGATGAATTGTCAC
AATCCTTCCTGGATATCCAAGAGGGCAATCCTGAATTGGTTTCTAAGGCGGGGACGAGTGTGCTCCTGTT
GGATGGTGAAGCTGCTTCGCACGACAACATAAATAACAACGCCGTGGACTGCCACCAAGTGCAAATCGTT
GCCTCCCATTCTGACAGCCCTCTGCCAAGCCTGGAGACACCGGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_213616

Insert Size: 3618 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_213616.4, NP_998781.1
RefSeq Size:	8101 bp
RefSeq ORF:	3618 bp
Locus ID:	381290
UniProt ID:	Q6Q477
Cytogenetics:	1 57.95 cM
Gene Summary:	Calcium/calmodulin-regulated and magnesium-dependent enzyme that catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell (By similarity). By regulating sperm cell calcium homeostasis, may play a role in sperm motility (PubMed:15078889).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (b, also known as x/b or PMCA4b) lacks an alternate exon which results in an alternate 3' coding region, compared to variant a. The encoded isoform (b) has a distinct and longer C-terminus, compared to isoform a. 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.