

Product datasheet for RN202745

Atp2b4 (NM_001005871) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2b4 (NM_001005871) Rat 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:	>RN202745 representing NM_001005871 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGAATCCATCAGGACATAACTTGCCAGCCAACCTCGGTAGCTGAGAGCTATGAAGGGGAGTTGGCT
GCACCTTAATGGACCTGAGGAAGCTCATGGAGCTTCGTGCAGCTGATGCAGTGACCCAGATCAGTGCCCA
CTATGGAAGTGTACAAGAAATCTGCGCAAGACTGAAAACCTCCCCTGTAGAAGGTCTGTCTGGGAACCT
GCAGATTTGGAGAAGCGTAGACTTGTTTTGGGAAGAACATGATACCTCCGAAAAAGCCCAAGACGTCT
TAGAATTAGTGTGGGAAGCCCTGCAGGATGTCACACTCATCATCCTGGAGATCGCAGCCATCATATCCCT
GGTCTGTCTTCTACCGGCCTCCTGGCGGGGAAAATGAAATCTGTGGCCACATTGTAAGTAACCCAGAA
GAAGATGAGGAAGGAGAAAAGCTGGCTGGATTGAAGGGGCAGCCATTCTGCCTCGGTGATCATTGTGGTAT
TCGTGACAGCCTCAACGACTGGAGCAAAGAGAAGCAGTTCGGGGGGCTGCAGAGTCGCATTGAGCTTGA
GCAAAAATCTCCATTATCCGGAATGGTCAGCTTATACACTCCCAGTGGCTGAGATTGTGGTGGGAGAT
ATTGCCAGGTCAAATACGGTGACCTGCTGCCTGCCGACGGAATCCTAATCCAGGGAAATGATCTGAAGA
TTGACGAGAGCTCTTTGACAGGAGAATCAGATCATGTCAAGAAGACTCTGGACAAAAGCCCATGTTGCT
CTCAGGGACTCATGTGATGGAAGGCTCTGGACGGATGGTGGTACTGCTGTGGGAATCAATTCAGACT
GGAATCATCTTACCCTCTTAGGGGCTAATGAGGAAGAAGACGATGAGAAAAAGAAGAAAGTAAAAAAC
AAGGAGTCTCTGAAAATCGCAACAAAGCAAAAACCCAGGATGGAGTGGCCTTGGAAATCCAGCCACTCAA
CAGCCAGGAGGGGCTCGATAGTGAGGAAAAGGAGAAGAAAGCAAGCAAGGACCCCAAGAAGGAGAAGTCG
GTCCTGCAGGGCAAGCTCACACGCCTGGCTGTGCAGATCGGAAGGCAGGTCTGATCATGTCTATCCTCA
CAGTCCTCATCTGATTCTATACTTCGTGGTTGACAATTCGTGATACAGCGCCGGGCATGGCTTCTGA
GTGCACTCCTGTGTACATCCAGTATTTGTCAAGTTCTTCATCATCGGAGTCACTGTACTGGTAGTGGCT
GTGCCAGAGGGGCTGCCACTGGCTGTACCATCTCGTTGGCCTACTCTGTAAGAAAATGATGAAGGACA
ACAACTTGGTCCGCACTTGGACGCCTGTGAGACGATGGCAACGCCACAGCCATCTGCTCTGATGAAGAC
GGGCACGCTGACCATGAACCGCATGACCGTGGTACAAGCTTACATTGGGGGCACTCACTACCGCCAGATC
CCAAAACCTGACGACCTCCCACCAACGTTCTGGACCTCATAGTCAACAGCATCTGTATCAACTCTGCTT



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ACACTTCTAAGATTCTGCCTCCAGAGAAAAGAGGGAGGCCTCCCCGGCAAGTAGGCAACAAGACAGAGTG
 TGGACTGCTGGGCTTTGTACAGACCTGAAGCAGGACTACCAAGCAGTTCGCAGTGAGATGCCCGAGGAG
 AAGCTCTTCAAGGTGTACACCTCAACTCAGTGCAGCAAGTCCATGAGCACCCTCATCAGGAAGCCGGAAG
 GGGGCTCCGCGTGTTCAGCAAGGGCGCCTCCGAGATAATGCTGCGCAAGTGTGATCGGATCCTGAACAA
 GGAAGGAGGAATTGTACCATTAAAACCTAAGGACCAGACAATATGGTACGCAACGTCATTGAGCCCATG
 GCCAGTGAAGGACTCCGGACCATCGGCATAGCTTACCGAGATTTTGTGATGGTGAAGAGCCCTGTGGGAAA
 ATGAGAAATGAGATCTTCACTGGGCTGGTCTGCATTGCAGTGGTGGCATTGAGGACCCTGTGGCCGAGA
 GGTACCAGATGCCATTAACAAGTGCAAACGGGCTGGCATTACTGTGAGGATGGTACAGGTGACAACGTC
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 GAAAAGAATTCAACAGACTCATAACGCAATGAGAAGGGCGAGGTCGAACAAGAAAAGCTGGACAAGGTCTG
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 AGCAATATTGGGGAACAGAGGCAGGTGGTGGCTGTACCAGGTGATGGAACCAATGATGGACCGGCTCTAA
 AGAAAGCAGATGTCGGTTTTGCTATGGGCATTGCAGGCACAGATGTGGCTAAGGAGGCATCAGACATCAT
 CCTGACTGATGACAACCTCACCAGCATTGTGAAGGCAGTGTGTTGGGCGGAAACGTATACGACAGCATT
 TCCAAGTTCCTGCAGTTCAGCTCACTGTCAACGTGGTGGCCGTGATTGTGGCTTCTCTGGAGCCTGCA
 TCACTCAGGATCCCCACTGAAAGCGGTGACAGATGCTGTGGGTGAACCTGATCATGGACAGCTTTGCTTC
 TCTGGCCCTGGCCACAGAGCCCCGACCGATTCCCTGCTGAGGCGTCGCCCTATGGGCGAAACAAGCCC
 CTGATCTCTCGCACAAATGATGAAGAATCCTGGGCCACGCGGTGATCAGCTCGGAATCGTCTTCTCTCC
 TCGTCTTTGCTGGCGACAAACTGTTTGACATTGACAGTGGGAGGAAGGCGCCTCTCAATTCACCACCCAG
 CCAGCACTACACCATTGTTTTCAACACGTTTGTGCTGATGCAACTCTTCAACGAGATCAACTCTCGGAAG
 ATCCATGGCGAGAAGAATGTCTTTGCAGGTGTCTACCACAACATCATTTTCTGCTCTGTTGTTTTAGGCA
 CGTTCTTCTGCCAGATCTTGATCGTGAAGTGGGAGGTAAGCCCTCAGCTGCACAAACCTCACCATGGA
 GCAGTGGATGTGGTGTCTCTTTATAGGGATCGGAGAACTTTTGTGGGCGCAGGTCATCTGCAATACCT
 ACCAAGTCTCTAAAGTTCTGAAAGAGGGCGGGCCATGGCAGTGACAAGAGGAGATCAGCAAGGACGCTG
 AGGGGCTGGAAGAGATCGACCATGCCGAGATGGAGCTTCGCCAGGCCAGATCCTCTGGTCCGTGGCCT
 GAACCGGATTGACTCAGATTGAAGTAATTAACAAATTCAGACGGGAGCCTCTTTAAGGGAGTCCCTA
 AGGCGACAGAACTTGAGTCAACAACCTGATGTAATAACTGGTTCCTAGCTCCTATTGAGAAGCAGTTGCGT
 CAGTCAGAACCTCCCCCTCCACCTCTTCTGCCGTTACACCTCCTCTGTGGGCAATCAGAGTGGTCAAAG
 TATTTCA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001005871
- Insert Size:** 3510 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_001005871.1](#), [NP_001005871.1](#)

RefSeq Size: 4102 bp

RefSeq ORF: 3510 bp

Locus ID: 29600

UniProt ID: [Q64542](#)

Cytogenetics: 13q13

Gene Summary: transports calcium; plays a role in regulation of calcium homeostasis and calcium-mediated signalling pathways [RGD, Feb 2006]