

## Product datasheet for RN214747

### Atp2b1 (NM\_053311) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atp2b1 (NM_053311) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Atp2b1
Synonyms:	Pmca1a; Pmca1b; Pmca1c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN214747 representing NM_053311 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGGCGACATGGCAAACAACCTCAGTTGCATATAGTGGTGTGAAAACTCTTTGAAAGAAGCTAATCATG  
ATGGCGACTTTGGCATCACACTTGCAGCTGCGGGCCCTCATGGAGCTCAGGTCCACAGATGCATTACG  
AAAAATACAGGAAAGCTATGGGGATGTCTATGGAATTTGCACCAAGTTGAAAACATCTCCCAATGAAGGT  
TTAAGTGGAAATCCTGCAGATTTAGAAAAGAGAAGCAGTGTTTGGAAAAGAACTTTATACTCCTAAGA  
AGCCAAAAACCTTTCTTCAGTTAGTATGGGAAGCATTACAAGATGTCACCTTAATTATACTAGAAATCGC  
AGCCATAGTATCATTGGGCCCTTTCTTTTATCAACCTCCGGAAGGGGATAATGCACCTTTGTGGAGAAGTT  
TCTGTTGGGAAGAAGAAGGTGAAGGAGAAACGGGGTGGATTGAAGGAGCTGCCATCCTCTTGTCCGGTGG  
TGTGTGTGGTGTAGTGACGGCTTTCAATGACTGGAGTAAGGAGAAACAGTCCGAGGCTGCAGAGTGC  
AATTGAACAGGAACAGAAGTTCACCGTCATCAGGGTGGCGAGTCCAGATACCTGTAGCTGACATT  
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AAAGCAAATCTGCCAAAGAAGGAAAAGTCTGTGTTACAAGGAAACTTACGAAGCTGGCTGTTTCAAGTTC  
GCAAAGCAGGTCTGCTGATGTCTGCCATCACGGTTATCATCTAGTGCTATATTTTGTGATCGATACCTT  
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CTTACTCCGTCAAGAAAATGATGAAGGATAACAACCTTGGTGGAGGACCTGGACGCTTGTGAGACCATGGG  
GAACGCTACAGCTATCTGTTCCGATAAGACGGGACCCTGACGATGAACAGGATGACGGTCGTTCCAGGCC  
TACATCAACGAAAAGCATTATAAAAAGGTTCCGGAACCGAAGCCATCCCGCAAATATCTGTCTATC



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TGGTAACAGGAATTTCTGTGAATTGTGCTTATACATCAAAAATATTGCCACCGGAGAAAGAGGGTGGATT  
 ACCTCGTCATGTGGGGAATAAACAGAATGTGCCTTGTGGGATTTCTCTTGGATTTAAAGCGGGATTAT  
 CAAGATGTTAGAAATGAAATACCAGAAGAAGCATTGTACAAAGTCTATACCTTCAATTCTGTTAGGAAAT  
 CCATGAGTACAGTCTAAAGAATTCAGATGGAAGTTCCGGATCTTCAGCAAGGGTGCATCTGAGATAAT  
 TCTGAAAAAGTGTTCAAAATCTTGAGTGCTAATGGTGAGGCCAAAGTGTCCGACCCAGAGACCGAGAT  
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 CGCTGTTGTGGGATTGAAGATCCTGTGAGGCCTGAGGTACCAGAGGCAATAAAGAAATGTCAGAGGGCT  
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 GCTCTGGGTCAACCTCATCATGGACACGCTGGCCTCCCTGGCTCTGGCGACAGAACCACCCACCGAGTCA  
 CTCCTGCTCCGGAAGCCTTACGGGAGAAACAAGCCTCTCATCTCACGCACAATGATGAAGAATATCTTGG  
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 CAGTGGGAGGAACGCCCTCTGCATGCTCCACCGTCAGAGCACTACACCATTGTGTTCAACACCTTTGTG  
 CTGATGCAGCTCTTCAATGAAATAAATGCCCGGAAAATTCATGGGAAAGAAATGTGTTGAAGGGATCT  
 TCAACAACGCCATCTTGCACAATTGTCTTAGGCACCTTTGTGGTGCAGATAAATCGTGCAGTTTGG  
 CGGGAAGCCTTTCAGCTGCTCAGAATTTCAATAGAACAATGGCTGTGGTCCATATTCCTGGGAATGGGG  
 ACCTTACTCTGGGGCCAGCTTATTTCAACCATTCCAACCAGCCGCTTAAAGTTTCTAAAAGAAGCTGGCC  
 ATGGGACACAGAAGGAAGAGATCCCTGAGGAGGAATTGGCGGAGGATGTTGAAGAGATTGACCATGCCGA  
 ACGGGAGTTGCGGCTGGCCAGATCTTGTGGTTTAGAGGCCTGAACAGAATCCAACACAGATGGATGTA  
 GTGAATGCTTTCAGAGTGGAGTTCCATTACGGGGCTCTAAGGCGACAACCCTCCATCGCCAGCCAGC  
 ACCATGATGTAACAAATGTTTCTACCCCTACACATGTAGTGTTCCTCTTACTGCTTACTCTCTGT  
 GGGTATCCGAGTGGTGAATGCATTTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_053311
- Insert Size:** 3531 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\\_053311.1](#), [NP\\_445763.1](#)

**RefSeq Size:** 4228 bp

**RefSeq ORF:** 3531 bp

**Locus ID:** 29598

**UniProt ID:** [P11505](#)

**Cytogenetics:** 7q13

**Gene Summary:** regulates intracellular Ca<sup>2+</sup> levels [RGD, Feb 2006]