

## Product datasheet for **RN201101**

### **Atp2b2 (NM\_012508) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atp2b2 (NM\_012508) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Atp2b2  
**Synonyms:** PMCA2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN201101 representing NM\_012508  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGTGATATGACCAACAGCGACTTTTACTCCAAAACCAAAGAAATGAGTCGAGCCATGGGGCGGAGT  
TCGGGTGCAGCATGGAGGAGCTGCGCTCCCTCATGGAGCTGCGGGGCACTGAGGCTGTGGTCAAGATCAA  
GGAGACATATGGGGACTGAATCCATCTGCCGGCCCTCAAACCTCTCCTGTTGAAGGTTTGCCAGGC  
ACCGCTCCAGACCTGGAAAAGAGGAAACAGATTTTCGGGCAAACTTCATACCTCCAAAGAAACCAAAAA  
CCTTCTCGAGCTGGTGTGGGAAGCACTACAGGACGTGACGCTCATCATCCTGGAGATCGCGGCCATCAT  
CTCCCTGGGACTGTCTTCTACCAACCCACCCGGAGAGAGCAATGAAGGATGTGCCACGGCCCAAGGTGGG  
GCAGAAGATGAAGGTGAAGCAGAAGCAGGCTGGATCGAGGGGGCTGCCATCCTGTGTGTCAGTCATCTGTG  
TGGTCTCGTCACAGCCTTCAATGATTGGAGTAAAGAGAAACAGTTCGGGGCCTGCAGAGCCGAATTGA  
GCAGGAACAGAAGTTCACCGTAGTCCGGGCTGGCCAGGTGGTCCAGATCCCTGTGGCCGAGATTGTGGTT  
GGGGACATTGCCAGATCAAATACGGTGACCTCCTTCTGCTGATGGCCTTTTCCAGGGCAATGACC  
TCAAGATCGATGAAAGCTCGCTCACAGGGGAGTCTGACCAGGTGCGCAAGTCTGTGGATAAGGACCTAT  
GTTGCTGTGAGGAACTCATGTGATGGAAGGCTCAGGACGGATGGTGGTACTGCTGTGGGTGTCACCTCT  
CAAAGTGGCATCATATTTACCCTGCTTGGGGCTGGTGGTGAAGAGGAAGAGAAGAAAGACAAAAAGCCA  
AGCAGCAGGATGGGGCAGCTGCTATGAAATGCAGCCTCTGAAGAGTGCGGAGGGCGGTGATGCAGATGA  
CAAGAAGAAAGCCAACATGCACAAGAAAGAGAAGTCCGGTCTCAGGGCAAGCTACCAAGCTGGCTGTG  
CAGATAGGCAAGGCGGGCTGGTGTGTCGGCCATCACGGTGTGATCCTGGTGTCTACTTCCCGTGG  
ACACCTTCGTGGTCAACAAGAAGCCGTGGCTGACGGAGTGCACACCGGTCTACGTGCAGTACTTCGTCAA  
GTTCTTTCATCATTGGTGTGACGGTGTGGTGGTGTGCTGTCGCCGAGGGCCTCCCTCTGGCTGCACCATC  
TCACTGGCCTATTCGGTGAAGAAAATGATGAAGGACAACAACCTGGTCCGTACCTGGACGCTGTGAGA  
CCATGGGTAACGCCACAGCCATCTGCTCAGACAAGACAGGACGCTGACCACCAACCGCATGACCGTGGT  
GCAGGCCATGTGCGGTGATGTCCACTACAAGGAGATCCCTGATCCAGCTCCATCAATGCCAAGACATTG  
GAGCTGCTGGTCAACGCCATTGCCATCAACAGCGCCTACACCACCAAGATCCTCCCCCAGAAAAAGAGG



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GCGCCCTGCCCCGGCAGGTGGGCAACAAGACAGAGTGTGGCCTGCTGGGCTTCGTGCTGGACCTGAGGCA  
 GGATTACGAGCCGGTACGCAGCCAGATGCCAGAGGAAAAGCTGTATAAGGTGTACACCTCAACTCTGTG  
 CGCAAGTCCATGAGCACCCTCATCAAGATGCCTGACGAGAGCTTCCGCATGTACAGCAAAGGTGCTTCGG  
 AGATTGTGCTCAAAAAGTGTGCAAGATTCTCAGTGGGGCAGGGGAGCCCCGTGTCTCCGGCCCCGTGA  
 CAGGGATGAGATGGTTAAGAAGGTGATCGAGCCCATGGCCTGTGACGGGCTCCGTACCATCTGTGTGGCC  
 TATCGTGACTTCCCCAGCAGCCCTGAGCCTGACTGGGACAATGAGAATGACATTCTCAATGAACTCACCT  
 GCATCTGGTGGTGGGCATCGAAGACCCAGTGCACCTGAGGTCCCAGAAGCCATCCGCAAGTGCCAGCG  
 GGCCGGTATCACAGTCCGCATGGTCACCGGTGACAAACATCAACACAGCCCGGGCCATCGCCATCAAGTGT  
 GGCATTATCCACCCTGGAGAGGACTTCTGTGCCTGGAAGGCAAAAGAATTCAATCGGAGGATCCGCAACG  
 AGAAGGGGGAGATTGAGCAGGAGCGGATTGACAAGATCTGGCAAAGCTGAGGGTGTGGCTCGATCCTC  
 GCCCACGGATAAGCACACCCTGGTCAAAGGCATCATCGACAGCACACACTGAGCAGCGGCAGGTGGTG  
 GCTGTGACAGGGGATGGACCAACGATGGGCTGCTCTCAAGAAGGCAGATGTGGCTTCGCGATGGGCA  
 TCGCAGGCACGGATGTGGCAAGGAGCCCTCAGACATCATCTGACAGACGACAACCTCAGCAGCATCGT  
 TAAGGCAGTGATGTGGGCCGTAATGTCTATGACAGCATATCAAATTCCTGCAGTTTCAGCTGACTGTC  
 AATGTGGTGGCTGTGATCGTGGCCTTACGGGTGCCTGCATTACACAGGACTCCCCTCTCAAGGCGGTGC  
 AGATGCTCTGGGTGAACCTCATCATGGACACATTTGCTTCCCTGGCCCTGGCAACAGAGCCACCCACCGA  
 GACTCTGCTCCTGAGAAACCTTACGGCCGCAACAAGCCGCTCATCTCGAGAACCATGATGAAGAATC  
 CTGGGCCACGCCCTTACCAGCTAACCTCATCTTACCCTGCTCTTCTGGGTGAGAAGATGTTCCAGA  
 TTGACAGCGGAAGGAACGCCCGCTGCACTCGCCACCCTCGGAGCACTACACCATCATCTTCAACACCTT  
 CGTCATGATGCAGCTTTTCAACGAGATCAACGCCCGTAAGATCCACGGCGAGCGTAACGTCTTCGACGGA  
 ATCTTCCGGAACCCATCTTCTGCACCATCGTTCTCGGCACTTTTGCCATCCAGATAGTATTGTGCAGT  
 TCGGCGGCAACCCTTTCAGCTGCTCCCCACTCCAGCTGGACCAGTGGATGTGGTGCATCTTCATAGGCC  
 GGGAGAGCTCGTCTGGGGCCAGGTCAATGGCACCATCCCTACCAGCAGGCTCAAGTTTCTGAAAGAGGCA  
 GGGCGGCTAACACAGAAGGAGGAGATCCCCGAGGAAGAGTTAAATGAGGATGTGGAAGAGATAGACCACG  
 CAGAGCGGGAGCTTCGCGGAGGCCAGATCCTATGGTTCGGGGCCCTGAATCGGATCCAGACACAGATCCG  
 CGTCGTGAAGGCGTTCCGTAGCTCTCTCTATGAAGGGTTAGAAAAACCCGAGTCTCGAACCTCCATCCAT  
 AACTTCATGGCTCATCTGAATTCGGATCGAAGATTCCAGCCCCACATCCCCCTCATCGATGACACCG  
 ACCTGGAAGAAGATGCCGCGCTCAAGCAGAACTCGAGCCCGCGTCTCGCTCAACAAGAACAATAGCGC  
 CATCGACAGCGGGATCAACCTGACGACCACAGCAAAATCAGTACCTCTTCAAGTCCAGGGAGCCCC  
 ATCCACAGCCTGGAGACGTCGCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_012508

**Insert Size:**

3597 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\\_012508.5](#), [NP\\_036640.1](#)

**RefSeq Size:** 7019 bp

**RefSeq ORF:** 3597 bp

**Locus ID:** 24215

**UniProt ID:** [P11506](#)

**Cytogenetics:** 4q42

**Gene Summary:** regulates intracellular calcium ion levels [RGD, Feb 2006]