

## Product datasheet for TP321710

### ATP2B2 (NM\_001001331) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human ATPase, Ca<sup>++</sup> transporting, plasma membrane 2 (ATP2B2), transcript variant 1, 20 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC221710 representing NM\_001001331  
Red=Cloning site Green=Tags(s)

MGDMTNSDFYSKNQRNESSHGGEFGCTMEELRSLMELRGTEAVWKIKETYGDTEAICRRLKTSPEVGLPG  
TAPDLEKRKQIFGQNFIPPKPKTFLQLVWEALQDVTLLILEIAAIIISLGSFYHPPGEGNEGCATAQGG  
AEDEGEAEAGWIEGAAILLSVICVVLVAFNDWSKEKQFRGLQSRIEQEKFVVRAGQVQIPVAEIVV  
GDIAQVKYGDLLPADGLFIQGNLDKIDESSLTGESDQVRKSVDKDPMLLSGTHVMEGSGRMLVTAVGVNS  
QTGIIFTLLGAGGEEEEKDKKGVKKGDGLQLPAADGAAASNAADSANASLVNGKMQDGNVDASQSKAKQ  
QDGAAMEMQPLKSAEGGDADDRKKASMHKKEKSVLQGKLTCLAVQIGKAGLVMASAITVILVLYFTVDT  
FVFNKPKWLPCTPVYVQYFVKFFIIGVTVLVAVPEGLPLAVTISLAYSVKKMMKDNNLVRLHDACETM  
GNATAICSDKTGTLTNRMTVWQAYVGDVHYKEIPDPSSINTKTMELLINAIANSAYTTKILPPEKEGA  
LPRQVGNKTECGLLGFVLDLKQDYEPVRSQMPEEKLYKVTYFNSVRKSMSTVIKLPDESFRMYSKGASEI  
VLKKCKKILNGAGEPRVFRPRDRDEMVKVIEPMACDGLRTICVAYRDFPSSPEPDWDNENDILNELTCI  
CVVGIEDPVRPEVPEAIRKCQRAGITVRMVTGDNINTARAIAIKCGIHPGEDFLCLEGKEFNRRIRNEK  
GEIEQERIDKIWPKLRVLARSSPTDKHTLVKGIIDSTHTEQRQWAVTGDGTNDGPALKKADVGFAMGIA  
GTDVAKEASDIILTDDNFSSIVKAVMWGRNVYDSISKFLQFQLTVNVVAVIVAFTGACITQDSPLKAVQM  
LWVNLIMDTFASLALATEPPTETLLLRKPYGRNKPLISRTMMKNILGHAVYQLALIFLLFVGEKMFQID  
SGRNAPLHSPSEHYTIIFNTFVMMQLFNEINARKIHGERNVFDGIFRNPIFCTIVLGTFAIQIVIVQFG  
GKPFSCSPLQLDQWMWCIFIGLWVWQVIATIPTSRLKFLKEAGRLTQKEEIPPEELNEDVEEIDHAE  
RELRRGQILWFRGLNRIQTQIRVVKAFRSSLYEGLEKPESTRSIHNFMAHPEFRIEDSQPHIPLIDDTDL  
EEDAALKQNSSPSSLNKNNSAIDSGINLTTDTSKSATSSSPGSPHISLETSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

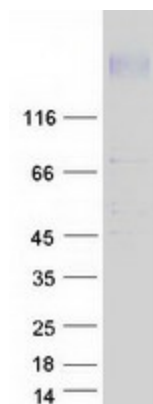
**Predicted MW:** 136.7 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method



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<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001001331</a>
<b>Locus ID:</b>	491
<b>UniProt ID:</b>	<a href="#">Q01814</a>
<b>RefSeq Size:</b>	6821
<b>Cytogenetics:</b>	3p25.3
<b>RefSeq ORF:</b>	3729
<b>Synonyms:</b>	PMCA2; PMCA2a; PMCA2i
<b>Summary:</b>	<p>The protein encoded by this gene belongs to the family of P-type primary ion transport ATPases characterized by the formation of an aspartyl phosphate intermediate during the reaction cycle. These enzymes remove bivalent calcium ions from eukaryotic cells against very large concentration gradients and play a critical role in intracellular calcium homeostasis. The mammalian plasma membrane calcium ATPase isoforms are encoded by at least four separate genes and the diversity of these enzymes is further increased by alternative splicing of transcripts. The expression of different isoforms and splice variants is regulated in a developmental, tissue- and cell type-specific manner, suggesting that these pumps are functionally adapted to the physiological needs of particular cells and tissues. This gene encodes the plasma membrane calcium ATPase isoform 2. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p>
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway

**Product images:**

Coomassie blue staining of purified ATP2B2 protein (Cat# TP321710). The protein was produced from HEK293T cells transfected with ATP2B2 cDNA clone (Cat# [RC221710]) using MegaTran 2.0 (Cat# [TT210002]).