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## Produktinformation



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## ATP2B2 Pre-design Chimera RNAi

Catalog # : H00000491-R04

規格 : [ 10 nmol ] [ 20 nmol ]

List All

### Specification

**Product Description:** Homo sapiens ATPase, Ca<sup>++</sup> transporting, plasma membrane 2 (ATP2B2), transcript variant 2, mRNA.

### Application Image

RNAi Knockdown

**Reactivity:** Human

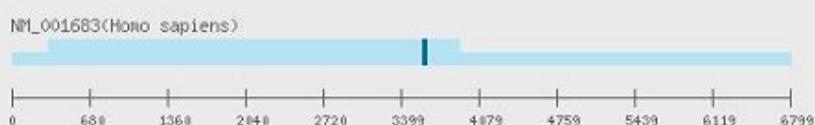
**Supplied Product:** DEPC water

**Target Refseq:** NM\_001683

**Target Region:** Coding sequence

**Storage Instruction:** Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

**Note:** Position of the Chimera RNAi.  
The related RNAi products listed below were designed from different accession number but sharing the same RNAi sequence.



### Publication Reference

1. dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.  
Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S. Nucleic Acids Res. 2005 Jul 1;33(Web Server issue):W589-91.
2. Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.  
Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K. Nucleic Acids Res. 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
3. Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.  
Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K. Nucleic Acids Res. 2004 Feb 9;32(3):936-48. Print 2004.
4. siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.  
Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K. Nucleic Acids Res. 2004 Jul 1;32(Web Server issue):W124-9.

### Applications

#### RNAi Knockdown

#### Gene Information

Entrez GeneID: [491](#)

**Gene Name:** ATP2B2

**Gene Alias:** PMCA2,PMCA2a,PMCA2i

**Gene** ATPase, Ca<sup>++</sup> transporting, plasma membrane 2

**Description:**

**Omim ID:** [108733, 601386](#)

**Gene Ontology:** [Hyperlink](#)

**Gene Summary:** 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]

**Other** OTTHUMP00000178534,OTTHUMP00000178537,plasma membrane

**Designations:** Ca(2+)-ATPase,plasma membrane Ca2+ pump 2,plasma membrane calcium ATPase 2,plasma membrane calcium pump

## Gene Pathway

[Calcium signaling pathway](#)

## Related Disease

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[Genetic Predisposition to Disease](#) [Psychiatric Status Rating Scales](#) [Schizophrenia](#)

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