

Datasheet for ABIN7563335

## SLC11A2 Protein (AA 1-568) (His tag)



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### Overview

Quantity:	1 mg
Target:	SLC11A2
Protein Characteristics:	AA 1-568
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC11A2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Slc11a2 Protein expressed in mammalian cells.
Sequence:	<p>MVLDPKEKMP DDGASGDHGD SASLGAINPA YSNSSLPHST GDSEEPFTTY FDEKIPIPEE</p> <p>EYSCFSFRKL WAFTGPGFLM SIAYLDPGNI ESDLQSGAVA GFKLLWVLLL ATIVGLLLQR</p> <p>LAARLGVVTG LHAEVCHRQ YPKVPRIILW LMVELAIGS DMQEVIGSAI AINLLSAGRV</p> <p>PLWGGVLITI ADTFVFLFLD KYGLRKLEAF FGFLITIMAL TFGYEYITVK PSQSQVLRGM</p> <p>FVPSCPGCRT PQVEQAVGIV GAVIMPHNMY LHSALVKSQR VNRANKQEV EANKYFFIES</p> <p>CIALFVSFII NVFVVSFAE AFFEKTNKQV VEVCKNNSSP HADLFPSDNS TLAVDIYKGG</p> <p>VVLGCYFGPA ALYIWAVGIL AAGQSSTMTG TYSGQFVMEG FLNLKWSRFA RVILTRSAI</p> <p>IPTLLVAVFQ DVEHLTGMD FLNLVQLSLQ PFALIPILTF TSLRPVMSEF SNGIGWRIAG</p> <p>GILVLIVCSI NMYFVVVYVQ ELGHVALYVV AAVVSVAYLT FVFYLGWQCL IALGLSFLDC</p> <p>GRSYRLGLTA QPELYLLNTV DADSVVSR <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the</b></p>

**protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	SLC11A2
Alternative Name:	Slc11a2 (SLC11A2 Products)
Background:	<p>Natural resistance-associated macrophage protein 2 (NRAMP 2) (Divalent cation transporter 1) (Divalent metal transporter 1) (DMT-1) (Solute carrier family 11 member 2),FUNCTION: Proton-coupled metal ion symporter operating with a proton to metal ion stoichiometry of 1:1 (PubMed:16475818). Selectively transports various divalent metal cations, in decreasing affinity: Cd(2+) &gt; Fe(2+) &gt; Co(2+), Mn(2+) &gt;&gt; Zn(2+), Ni(2+), VO(2+) (By similarity) (PubMed:16475818). Essential for maintenance of iron homeostasis by modulating intestinal absorption of dietary Fe(2+) and TF-associated endosomal Fe(2+) transport in erythroid precursors and other cells (PubMed:11739192). Enables Fe(2+) and Mn(2+) ion entry into mitochondria, and is thus expected to promote mitochondrial heme synthesis, iron-sulfur cluster biogenesis and antioxidant defense (By similarity). Can mediate uncoupled fluxes of either protons or metal ions. {ECO:0000250 UniProtKB:O54902,</p>

### Target Details

	ECO:0000250 UniProtKB:P49281, ECO:0000269 PubMed:11739192, ECO:0000269 PubMed:16475818}.
Molecular Weight:	62.4 kDa
UniProt:	<a href="#">P49282</a>
Pathways:	<a href="#">Transition Metal Ion Homeostasis</a> , <a href="#">Proton Transport</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a>

### Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

### Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months