

Datasheet for ABIN7562652  
**HCN2 Protein (AA 1-863) (His tag)**



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## Overview

Quantity:	1 mg
Target:	HCN2
Protein Characteristics:	AA 1-863
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HCN2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Hcn2 Protein expressed in mammalian cells.
Sequence:	<p>MDARGGGGRP GDSPGTTTAP GPPPPPPPPA PPQPQPPAP PPNPTTPSHP ESADEPGPRA</p> <p>RLCSRDSACT PGAAKGGANG ECGRGEPQCS PEGPARGPKV SFSCRGASG PSAAEEAGSE</p> <p>EAGPAGEPRG SQASFLQRQF GALLQPGVKN FSLRMFGSQK AVEREQERVK SAGAWIIHPY</p> <p>SDFRFYWDFT MLLFMVGNLI IIPVGITFFK DETTAPWIVF NVVSDTFFLM DLVLNFRGTI</p> <p>VIENDEIIL DPEKIKKKYL RTWFVVDVFS SIPVDYIFLI VEKIDSEVY KTARALRIVR FTKILSLLRL</p> <p>LRLSRLIRYI HQWEEIFHMT YDLASAVMRI CNLISMMLLL CHWDGCLQFL VPMLQDFPSD</p> <p>CWVSINNMVN HSWSELYSFA LFKAMSHMLC IGYGRQAPES MTDIWLTMLS MIVGATCYAM</p> <p>FIGHATALIQ SLDSSRRQYQ EKYKQVEQYM SFHKLPADFR QKIHDIYEHR YQGKMFDEDS</p> <p>ILGELNGPLR EEIVNFNCRK LVASMPLFAN ADPNFVTAML TKLKFEVFQPD GDYIIREGTI</p> <p>GKKMYFIQHG VVSVLTGKGN EMKLSGDSYF GEICLLTRGR RTASVRADTY CRLYSLSDVN</p> <p>FNEVLEEYPM MRRAFETVAI DRLDRIGKKN SILLHKVQHD LSSGVFNNQE NAIQEIYKY</p>

DREMVQQAEL GQRVGLFPPP PPPQVTSIA TLQQAVAMSF CPQVARPLVG PLALGSPRLV  
RRAPPGPLPP AASPGPPAAS PPAAPSSPRA PRTSPYGVPG SPATRVGPAL PARRLSRASR  
PLSASQPSLP HGVPAPSPAA SARPASSSTP RLGPAPTART AAPSPDRRDS ASPGAASGLD  
PLDSARSRLS SNL **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the 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>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	HCN2
Alternative Name:	Hcn2 ( <a href="#">HCN2 Products</a> )
Background:	<p>Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2 (Brain cyclic nucleotide-gated channel 2) (BCNG-2) (Hyperpolarization-activated cation channel 1) (HAC-1),FUNCTION: Hyperpolarization-activated ion channel exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) and in neurons (Ih). Can also transport ammonium in the distal nephron. Produces a large instantaneous current.</p> <p>{ECO:0000269 PubMed:10962006, ECO:0000269 PubMed:11096117, ECO:0000269 PubMed:11741901, ECO:0000269 PubMed:12034718,</p>

### Target Details

	ECO:0000269 PubMed:12193608, ECO:0000269 PubMed:12968185, ECO:0000269 PubMed:17562314, ECO:0000269 PubMed:23103389}.
Molecular Weight:	94.7 kDa
UniProt:	<a href="#">O88703</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