

Product Information

MemDX™ Membrane Protein Human CNGB1 (Cyclic nucleotide gated channel subunit beta

1) Full Length

Cat. No.: **MPC1055K**

This product is for research use only and is not intended for diagnostic use.

This product is a 139.6 kDa Human CNGB1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CNGB1

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

139.6 kDa

TMD

6

Sequence

MLGWVQRVLPQPPGTPRKTKMQEEEEVEPEPEMEAEVEPEPNPEEAETES
ESMPPEESFKEEEVAVADPSPQETKEAALTSTISLRAQGAIESEMNSPSR
RVLTWLMKGVKQVIPQPVHSITEDPAQILGHGSTGDTGCTDEPNLEAQ
DTRPGLRLLWLEQNLERVLPQPPKSSEVWRDEPAVATGAASDPAPPGRP
QEMGPKLQARETPSLPTPIPLQPKKEPAPEPQPGSQAQTSSLPPTR
DPAVLVAWVLRHLEMAPQPVHLHGKIGEQEPDSPGICDVQTISILPGGQV
EPDLVLEEVEPPWEDAHQDVSTSPQGTEVVPAYEEENKAVEKMPRELSRI
EEEEKEEEEEEEEEEEEEVEVTEVLLDSCVVSQVGVGQSEEDGTRPQST
SDQKLWEEVGEEAKKEAEEKAKEEAEEVAEEEEAEKEPQDWAETKEEPEAE
AEAASSGVVPATKQHPEVQVEDTDADSCPLMAEENPPSTVLPSPPAKSDT
LIVPSSASGTHRKLPSEDDEAEELKALSPAESPVVAWSDPTTPKDTDGQ
DRAASTASTNSAIINDRLQELVKLFKERTEKVKELIDPDVTSDEESPKP
SPAKKAPEPAPDTKPAEAEPVEEEHYCDMLCCKFKHRPWKKYQFPQSIDP
LTNLMYVLWLFVVMAWNWCWLIPVRWAFPYQTPDNIHHWLLMDYLCDL
IYFLDITVFQTRLQFVRGGDIITDKKDMRNNYLKSRRFKMDLLSLLPLDF
LYLKVGVNPLRLRCLKYMAFFEFNSRLESILSKAYVYRVIRTTAYLLY
SLHLNSCLYYWASAYQGLGSTHWVYDGVGNSYIRCYYFAVKTLITIGGLP
DPKTLFEIVFQLLNYFTGVFAFSVMIGQMRDVVGAATAGQTYRSCMDST
VKYMNIFYKIPKSVQNRVKTWYEYTWHSQGMLDESELMVQLPDKMRLDLAI

DVNYNIVSKVALFQGCDRQMIFDMLKRLRSVVYLPNDYVCKKGEIGREMY
IIQAGQVQVLGGPDGKSVLVTLKAGSVFGEISLLAVGGGNRRRTANVVAHG
FTNLFILDKKDLNEILVHYPESQKLLRKKARRMLRSNNKPKEEKSVLILP
PRAGTPKLFNAALAMTGKMGKGAKGGKLAHLRARLKELAALEAAAKQQE
LVEQAKSSQDVKGEEGSAAPDQHTHPKEAATDPPAPRTPPEPPGSPSSP
PPASLGRPEGEEEGPAEPEEHSVRICMSPGPEPGEQILSVKMPEEREKA
E

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CNGB1

Full Name

Cyclic nucleotide gated channel subunit beta 1

Introduction

In humans, the rod photoreceptor cGMP-gated cation channel helps regulate ion flow into the rod photoreceptor outer segment in response to light-induced alteration of the levels of intracellular cGMP. This channel consists of two subunits, alpha and beta, with the protein encoded by this gene representing the beta subunit. Defects in this gene are a cause of cause of retinitis pigmentosa type 45. Three transcript variants encoding different isoforms have been found for this gene.

Alternative Names

CNGB1; CNG4; GAR1; GARP; RP45; CNCG2; CNCG4; GARP2; RCNC2; RCNCb; CNCG3L; CNGB1B; RCNCbeta; cyclic nucleotide-gated cation channel beta-1; CNG channel beta-1; CNG-4; cyclic nucleotide gated channel beta 1; cyclic nucleotide-gated cation channel 4; cyclic nucleotide-gated cation channel gamma; cyclic nucleotide-gated cation channel modulatory subunit; glutamic-acid-rich protein; Cyclic nucleotide gated channel subunit beta 1

Gene ID

[1258](#)

UniProt ID

[Q14028](#)