Datasheet for ABIN7553525

# GARP Protein (AA 1-1251) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | GARP (CNGB1) |
| Protein Characteristics: | AA 1-1251 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This GARP protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant CNGB1 Protein expressed in mammalian cells. |
| Sequence: | MLGWVQRVLP QPPGTPRKTK MQEEEEVEPE PEMEAEVEPE PNPEEAETES ESMPPEESFK EEEVAVADPS PQETKEAALT STISLRAQGA EISEMNSPSR RVLTWLMKGV EKVIPQPVHS ITEDPAQILG HGSTGDTGCT DEPNEALEAQ DTRPGLRLLL WLEQNLERVL PQPPKSSEVW RDEPAVATGA ASDPAPPGRP QEMGPKLQAR ETPSLPTPIP LQPKEEPKEA PAPEPQPGSQ AQTSSLPPTR DPARLVAWVL HRLEMALPQP VLHGKIGEQE PDSPGICDVQ TISILPGGQV EPDLVLEEVE PPWEDAHQDV STSPQGTEVV PAYEEENKAV EKMPRELSRI EEEKEDEEEE EEEEEEEEEE EVTEVLLDSC VVSQVGVGQS EEDGTRPQST SDQKLWEEVG EEAKKEAEEK AKEEAEEVAE EEAEKEPQDW AETKEEPEAE AEAASSGVPA TKQHPEVQVE DTDADSCPLM AEENPPSTVL PPPSPAKSDT LIVPSSASGT HRKKLPSEDD EAEELKALSP AESPVVAWSD PTTPKDTDGQ DRAASTASTN SAIINDRLQE LVKLFKERTE KVKEKLIDPD VTSDEESPKP SPAKKAPEPA PDTKPAEAEP VEEEHYCDML CCKFKHRPWK KYQFPQSIDP LTNLMYVLWL FFVVMAWNWN CWLIPVRWAF PYQTPDNIHH WLLMDYLCDL IYFLDITVFQ TRLQFVRGGD |

## Product Details

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| | IITDKKDMRN NYLKSRRFKM DLLSLLPLDF LYLKVGVNPL LRLPRCLKYM AFFEFNSRLE SILSKAYVYR VIRTTAYLLY SLHLNSCLYY WASAYQGLGS THWVYDGVGN SYIRCYYFAV KTLITIGGLP DPKTLFEIVF QLLNYFTGVF AFSVMIGQMR DVVGAATAGQ TYYRSCMDST VKYMNFYKIP KSVQNRVKTW YEYTWHSQGM LDESELMVQL PDKMRLDLAI DVNYNIVSKV ALFQGCDRQM IFDMLKRLRS VVYLPNDYVC KKGEIGREMY IIQAGQVQVL GGPDGKSVLV TLKAGSVFGE ISLLAVGGGN RRTANVVAHG FTNLFILDKK DLNEILVHYP ESQKLLRKKA RRMLRSNNKP KEEKSVLILP PRAGTPKLFN AALAMTGKMG GKGAKGGKLA HLRARLKELA ALEAAAKQQE LVEQAKSSQD VKGEEGSAAP DQHTHPKEAA TDPPAPRTPP EPPGSPPSSP PPASLGRPEG EEEGPAEPEE HSVRICMSPG PEPGEQILSV KMPEEREEKA E **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.** |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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. |
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

## Target Details

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| Target: | GARP (CNGB1) |

## Target Details

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| Alternative Name: | CNGB1 (CNGB1 Products) |
| Background: | Cyclic nucleotide-gated cation channel beta-1 (Cyclic nucleotide-gated cation channel 4) (CNG channel 4) (CNG-4) (CNG4) (Cyclic nucleotide-gated cation channel gamma) (Cyclic nucleotide-gated cation channel modulatory subunit) (Cyclic nucleotide-gated channel beta-1) (CNG channel beta-1) (Glutamic acid-rich protein) (GARP),FUNCTION: Subunit of cyclic nucleotide-gated (CNG) channels, nonselective cation channels, which play important roles in both visual and olfactory signal transduction. When associated with CNGA1, it is involved in the regulation of ion flow into the rod photoreceptor outer segment (ROS), in response to light-induced alteration of the levels of intracellular cGMP., FUNCTION: Isoform GARP2 is a high affinity rod photoreceptor phosphodiesterase (PDE6)-binding protein that modulates its catalytic properties: it is a regulator of spontaneous activation of rod PDE6, thereby serving to lower rod photoreceptor 'dark noise' and allowing these sensory cells to operate at the single photon detection limit. |
| Molecular Weight: | 139.7 kDa |
| UniProt: | Q14028 |
| Pathways: | Regulation of G-Protein Coupled Receptor Protein Signaling, Phototransduction |

## Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| 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 |

 