Datasheet for ABIN7557160

QRICH1 Protein (AA 1-777) (His tag)

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Overview

Quantity:	1 mg
Target:	QRICH1
Protein Characteristics:	AA 1-777
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This QRICH1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Qrich1 Protein expressed in mammalian cells.
Sequence:	MNNSLENTIS FEEYIRVKAR SVPQHRMKEF LDSLASKGPE ALQEFQQTAT TTMVYQQGGN CIYTDSTEVA GSLLELACPV TTSVQPQTQQ EQQIQVQQPQ QVQVQVQVQQ SPQQVSAQQL SPQFTVHQPA EQPIQVQVQI QGQAPQSAAP SIQTPSLQSP SPSQLQAAQI QVQHVQAAQQ IQAAEIPEEH IPHQQIQAQL VAGQSLAGGQ QIQIQTVGAL SPPPSQQGSP REGERRVGTA SVLQPVKKRK VDMPITVSYA ISGQPVATVL AIPQGQQQSY VSLRPDLLTV DSAHLYSATG TITSPTGETW TIPVYSAQPR GDPQQQSITH IAIPQEAYNA VHVSGSPKAL AAVKLEDDKE KMVGTTSVVK NSHEEVVQTL ANSLFPAQFM NGNIHIPVAV QAVAGTYQNT AQTVHIWDPQ QQPQQQTAQE QTPPPQQQQQ QLQVTCSAQT VQVAEVEPQS QPQPSPELLL PNSLKPEEGL EVWKNWAQTK NAELEKDAQN RLAPIGRRQL LRFQEDLISS AVAELNYGLC LMTREARNGE GEPYDPDVLY YIFLCIQKYL FENGRVDDIF SDLYYVRFTE WLHEVLKDVQ PRVTPLGYVL PSHVTEEMLW ECKQLGAHSP STLLTTLMFF NTKYFLLKTV DQHMKLAFSK VLRQTKKSPS NPKDKSTSIR YLKALGIHQT GQKVTDDMYA EQTENPENPL RCPIKLYDFY LFKCPQSVKG

Product Details

	RNDTFYLTPE PVVAPNSPIW YSVQPISREQ MGQMLTRILV IREIQEAIAV ANATTMH **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: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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

Target:	QRICH1
Alternative Name:	Qrich1 (QRICH1 Products)
Background:	Transcriptional regulator QRICH1 (Glutamine-rich protein 1),FUNCTION: Transcriptional regulator that acts as a mediator of the integrated stress response (ISR) through transcriptional control of protein homeostasis under conditions of ER stress (PubMed:33384352). Controls the outcome of the unfolded protein response (UPR), an ER-stress response pathway that either promotes recovery of ER homeostasis and cell survival, or triggers the terminal UPR which elicits programmed cell death when ER stress is prolonged and unresolved (PubMed:33384352). ER stress induces QRICH1 translation by a ribosome translation re-

Target Details

	initiation mechanism in response to EIF2S1/eIF-2-alpha phosphorylation, and stress-induced QRICH1 regulates a transcriptional program associated with protein translation, protein secretion-mediated proteotoxicity and cell death during the terminal UPR (By similarity). May cooperate with ATF4 transcription factor signaling to regulate ER homeostasis which is critical for cell viability (By similarity). Up-regulates CASP3/caspase-3 activity in epithelial cells under ER stress. Central regulator of proteotoxicity associated with ER stress-mediated inflammatory diseases in the intestines and liver (PubMed:33384352). Involved in chondrocyte hypertrophy, a process required for normal longitudinal bone growth (PubMed:30281152). {ECO:0000250|UniProtKB:Q2TAL8, ECO:0000269|PubMed:30281152, ECO:0000269|PubMed:33384352}.
Molecular Weight:	86.6 kDa
UniProt:	Q3UA37

Application Details

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

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

