

## Product datasheet for TP313114

### QRICH1 (NM\_017730) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human glutamine-rich 1 (QRICH1), transcript variant 1, 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC213114 protein sequence  
 Red=Cloning site Green=Tags(s)

MNNSLENTISFEEYIRVKARSVPQHRMKEFLDSLASKGPEALQEFQQTATTTMVYQQGGNCIYTDSTEVA  
 GSLLLELACPVTTTSVQPQTQQEQQIQVQQPQQVQVQVQVQQSPQQVSAQLSPQLTVHQPTAQPIQVQVQIQ  
 GQAPQSAAPSIQTPSLQSPSPSLQAAQIQVQHVQAAQQIQAAEIPPEEHIPHQIQAQLVAGQSLAGGQQ  
 IQIQTVGALSPPPSQQGSPREGERRVGTASVLQPVKKRVDMPITVSYAISGQPVATVLAIPQGGQQSYV  
 SLRPDLLTVDSAHLYSATGTITSPTGETWTIPVYSAQPRGDPQQQSITHIAIPQEAYNAVHVSGSPTALA  
 AVKLEDDKEKMGVTTSSVKNSHEEVVQTLANSLFPAQFMNGNIHIPVAVQAVAGTYQNTAQTVHIWDPQQ  
 QPQQQTPEQTPPPQQQQQLQVTCQAQTVQVAEVEPQSQPQPPELLLPNSLKPEEGLEVWKNWAQTKN  
 AELEKDAQNRLAPIGRRQLLRFQEDLISSAVAELNYGLCLMTREARNGEGEPYDPDVLVYIFLCIQKYL  
 ENGRVDDIFSDLYVRFTEWLHEVLKDVQPRVPLGYVLPVSHVTEMLWECKQLGAHSPSTLLTLMFFN  
 TKYFLLKTVQHMKLAFSKVLRQTKKNPSNPKDKSTSIRYLKALGIHQTGQKVTDDMYAEQTENPENPLR  
 CPIKLYDFYLFKCPQSVKGRNDFYLTPEPVVAPNSPIWYSVQPISREQMGQMLTRILVIREIQEAIAVA  
 NASTMH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

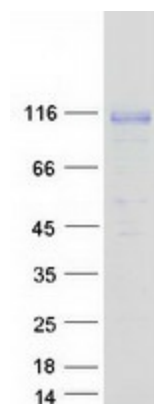
**Tag:** C-Myc/DDK  
**Predicted MW:** 86.3 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_060200</a>
<b>Locus ID:</b>	54870
<b>UniProt ID:</b>	<a href="#">Q2TAL8</a> , <a href="#">A1L3Z9</a>
<b>RefSeq Size:</b>	3331
<b>Cytogenetics:</b>	3p21.31
<b>RefSeq ORF:</b>	2328
<b>Synonyms:</b>	AB-DIP; VERBRAS
<b>Summary:</b>	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) which is an ER-stress response pathway (PubMed:33384352). ER stress induces QRICH1 translation by a ribosome translation re-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 (PubMed:33384352). May cooperate with ATF4 transcription factor signaling to regulate ER homeostasis which is critical for cell viability (PubMed:33384352). Upregulates 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). [UniProtKB/Swiss-Prot Function]
<b>Protein Families:</b>	Druggable Genome

### Product images:



Coomassie blue staining of purified QRICH1 protein (Cat# TP313114). The protein was produced from HEK293T cells transfected with QRICH1 cDNA clone (Cat# [RC213114]) using MegaTran 2.0 (Cat# [TT210002]).