

Product datasheet for TP313114L

QRICH1 (NM_017730) Human Recombinant Protein

Product data:

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

MNNSLENTISFEEYIRVKARSVPQHRMKEFLDSLASKGPEALQEFQQTATTTMVYQQGGNCIYTDSTEVA
GSLLELACPVTTSVQPQTQQEQQIQVQQPQQVQVQVQVQQSPQQVSAQLSPQLTVHQPTAQPIQVQVQIQ
GQAPQSAAPSIQTPSLQSPSPQLQAAQIQVQHVAQAQIQAAEIPPEEHIPHQIQAQLVAGQSLAGGQQ
IQIQTVGALSPPPSQQGSPREGERRVGTASVLQPVKKRVDMPITVSYAISGQPVATVLAIPQGGQQSYV
SLRPDLLTVDSAHLYSATGTITSPTGETWTIPVYSAQPRGDPQQQSITHIAIPQEAYNAVHVSGSPTALA
AVKLEDDKEKMGVTTSVVKNSSHEEVVQTLANSLFPAQFMNGNIHIPVAVQAVAGTYQNTAQTVHIWDPQQ
QPQQQTPQEQTPPPQQQQQLQVTCQAQTVQVAEVEPQSQPQPPELLLPNSLKPEEGLEVWKNWAQTKN
AELEKDAQNRLAPIGRRQLLRFQEDLISSAVAELNYGLCLMTREARNGEGEPYDPDVLYYIFLCIQKYL
ENGRVDDIFSDLYYVRFTEWLHEVLKDVQPRVPLGYVLPVSHVTEMLWECKQLGAHSPSTLLTLMFFN
TKYFLLKTVQHMKLAFSKVLRQTKKNPSNPKDKSTSIYLYKALGIHQGTGQKVTDDMYAEQTENPENPLR
CPIKLYDFYLFKCPQSVKGRNDFYLTPEPVVAPNSPIWYSVQPISREQMGQMLTRILVIREIQEAIAVA
NASTMH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

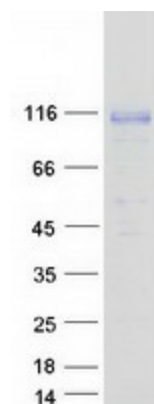
Tag:	C-Myc/DDK
Predicted MW:	86.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_060200
Locus ID:	54870
UniProt ID:	Q2TAL8 , A1L3Z9
RefSeq Size:	3331
Cytogenetics:	3p21.31
RefSeq ORF:	2328
Synonyms:	AB-DIP; VERBRAS
Summary:	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]
Protein Families:	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]).