

## Product datasheet for TP518122

### Qrich1 (NM\_001114119) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse glutamine-rich 1 (Qrich1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR218122 representing NM_001114119 Red=Cloning site Green=Tags(s)  <p>MNNSLENTISFEEYIRVKARSVPQHRMKEFLDSLASKGPEALQEFQQTATTTMVYQQGGNCIYTDSTEVA          GSLLLELACPVTTSVQPQTQQEQQIQVQQPQQVQVQVQVQQSPQQVSAQQLSPQFTVHQPAEQPIQVQVQI          QGQAPQSAAPSIQTPSLQSPSPSQLQAAQIQVQHVAQAQIQAAEIPPEEHIPHQIQALVAGQSLAGGQ          QIQIQTVGALSPPPSQQGSPREGERRVGTASVLQPVKKRKVDMPITVSYAISGQPVATVLAIPQGQQQSY          VSLRPDLLTVDSAHLYSATGTITSPTGETWTIPVYSAQPRGDPQQQSITHIAIPQEAYNAVHVSGSPTAL          AAVKLEDDKEKMGVTTSVVKNSSHEEVVQTLANSLFPAQFMNGNIHIPVAVQAVAGTYQNTAQTVHIWDPQ          QQPQQQTAQEQTTPPQQQQQLQVTCSAQTVQVAEVEPQSQPQPPELLLPNSLKPEEGLEWKNWAQTK          NAELEKDAQNRLAPIGRRQLLRFQEDLISSAVAELNYGLCLMTREARNGEGEPYDPDVLVYIFLCIQKYL          FENGRVDDIFSDLYYVRFTEWLHEVLKDVQPRVTPPLGYVLPVSHVTEEMLWECKQLGAHSPSTLLTLMFF          NTKYFLLKTVQHMKLAFSKVLRQTKKSPSNPKDKSTSIRYLKALGIHQGTGQKVTDDMYAEQ TENPENPL          RCPKLYDFYLFKCPQSVKGRNDTFYLTPEPVVAPNSPIWYSVQPIPREQMGQMLTRILVIREIQEAIIV          ANATTMH</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	87 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.



[View online »](#)

<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_001107591</a>
<b>Locus ID:</b>	69232
<b>UniProt ID:</b>	<a href="#">Q3UA37</a> , <a href="#">G3X8R5</a>
<b>RefSeq Size:</b>	3362
<b>Cytogenetics:</b>	9 F2
<b>RefSeq ORF:</b>	2331
<b>Synonyms:</b>	2610028H07Rik; b2b2404Clo
<b>Summary:</b>	<p>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-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). 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]</p>