

Product datasheet for SC209640

QRICH1 (NM_017730) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	QRICH1 (NM_017730) Human 3' UTR Clone
Symbol:	QRICH1
Synonyms:	AB-DIP; VERBRAS
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_017730
Insert Size:	775 bp
Insert Sequence:	<p>>SC209640 3'UTR clone of NM_017730</p> <p>The sequence shown below is from the reference sequence of NM_017730. The complete sequence of this clone may contain minor differences, such as SNPs.</p> <p>Blue=Stop Codon Red=Cloning site</p>

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GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAACGATCGCC
GCAGTGGCCAATGCAAGCACTATGCACGAGATGCCTTGGCCATGGCACAAGAGAAACCAGCCAGGAAA
AACCAGACAGACTTTCACACTAAAGAAGAGGCCTCCATTTTTTTTTTCTTTTTTTTATTGGTGTAGTT
ACGAAGCCTTTCAGGCTGCTTCTGTTTAAATATAAAAGAAAACCTTGCCCCCTTGCATCTTCATAAA
CCTGCTGCGGCAGACTCCTCAGCCGATGGTGGCTCTGGGTTTCCTTGAGTGTATATGCTCTAGAAAGT
TGCTGGCTGACTCTTTTTTGTCTGGGGCTGGGAAAGGGCTTGGACTGTGAAAAGAAATGTGGCCCT
TTCCATCTTCAAGAGAGATGGAATTAATGATGGATGGACCTGGAGGGAATCTCCCCAGCCGACTCCA
CTGGGCTGACAGACTTTGCTGACCACAGGGGAACGATGTTCTTTCTTTCTTCATGATCAGACATAAAC
TTAGCATCTTAATGGAAGAAAAATGAGGGGAACCTCAATTATGATTTATTAAGACAATTTCTATTACA
CCCTCCTTATGACAAGTGACATTTTAGATGTAAGTAAACCTTACCATGCCTTTTTTTTTTTTGT
TGGCCTAACATTGAGGCCTTAAACCTGAGGCTCCTGTGCCTGATGGAATCTTGTAAACATACACTTGT
GTATCATATAAAGATACCACTCTGTTTCTTATGTATTCTTACTCTAGTTGTTTATTAAGAATGACAA
GCACGCTTTTCAACA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI


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OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_017730.4</u>
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]
Locus ID:	54870
MW:	29