

Product datasheet for SC310421

QTRTD1 (QTRT2) (NM_024638) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QTRTD1 (QTRT2) (NM_024638) Human Untagged Clone
Tag:	Tag Free
Symbol:	QTRTD1
Synonyms:	QTRTD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310421 representing NM_024638. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGAAGCTGAGTCTTACCAAGGTAGTTAATGGCTGTCGCCTAGGAAAAATAAAAACTGGGCAAAACA
 GGGGACCACACCATGGATATTCCAGGCTGCCTTCTGTATACCAAGACTGGCTCCGCCCCACACCTCACC
 CATCACACGCTGCATAATATCCACGGGGTTCTGCCATGGCTCAGCTTACGCTGTCATCCCTAGCAGAA
 CATCATGAAGTCTTGACAGAATATAAGAAGGAGTTGGAAAGTTTATAGGCATGCCAGAATCACTCTTG
 TACTGCTCCCTGCACGATCCAGTCAGCCCTGCCCGGTGGTTATGTAACAAACAAGTCTGTGTCTGTG
 TGGAGTGTGACGACGAGTGGAAATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCA
 GACTGGTTCCAGTGCCTCTCCGATGGAGAAGTATCTTGAAGGAAGCAACTTCCATAAAAAGGGTCAGA
 AAGTCTGTTGACCGATCACTTCTTTTCTTGATAACTGTCTGCGGCTGCAGGAAGAGTCAGAGGTTCTT
 CAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTCAGCACGA
 GAGACAGCCAAGCGGCCTGTGGGTGGCTTCCTTCTGGATGGTTTTCAAGGAAATCCAACAACCTGGAG
 GCTAGACTACGCTTGTGTCATCAGTCACTGCAGAGCTGCCGGAGGACAAGCCAAGGTCATATCTGGT
 GTTAGTCGGCCAGATGAGGTGCTCGAGTGTATTGAAAGAGGAGTGGACTTATTTGAGAGTTTTTCCCT
 TATCAAGTAACAGAGCGGGGATGTGCCCTGACTTTCAGTTTTGATTACCAGCCGAATCCTGAAGAGACA
 CTACTACAACAAAATGGAACACAAGAAGAAATAAATGTATGGATCAAATAAAGAAAATTGAAACAACT
 GGTTGCAACCAAGAAAATAACATCATTTGAAATTAATCTGAAGGAAAAAAGTACCAGGAGACTTTAAC
 CCGCTGGTGAGAGGATGTTCTGTTACTGCTGTAAGAATCACACTCGGGCATAACATCCACCATCTGCTG
 GTGACCAATGAGCTGCTGGCCGGAGTCTGCTTATGATGCACAACTTTGAACACTACTTTGGGTTTTTC
 CATTACATCCGGGAAGCACTAAAAAGTGACAACTGGCACAGTTGAAAGAGCTCATCCACAGGCAAGCA
 TCT**TGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC


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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_024638
Insert Size:	1248 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_024638.3</u>
RefSeq Size:	4025 bp
RefSeq ORF:	1248 bp
Locus ID:	79691
UniProt ID:	<u>Q9H974</u>
Cytogenetics:	3q13.31
Domains:	TGT
MW:	46.7 kDa
Gene Summary:	This gene encodes a subunit of tRNA-guanine transglycosylase. tRNA-guanine transglycosylase is a heterodimeric enzyme complex that plays a critical role in tRNA modification by synthesizing the 7-deazaguanosine queuosine, which is found in tRNAs that code for asparagine, aspartic acid, histidine, and tyrosine. The encoded protein may play a role in the queuosine 5'-monophosphate salvage pathway. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012] Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.