

Product datasheet for **SC330531**

QTRTD1 (QTRT2) (NM_001256837) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: QTRTD1 (QTRT2) (NM_001256837) Human Untagged Clone
Tag: Tag Free
Symbol: QTRTD1
Synonyms: QTRTD1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330531 representing NM_001256837.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGGTTCAGTGCCTCTCCGAT
GGAGAAGTATCTGTGAAGGAAGCAACTTCCATAAAAGGGTCAGAAAGTCTGTTGACCGATCACTTCTT
TTCTTGGATAACTGTCTGCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAGTG
ATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTCAGCACGAGAGACAGCCAAGCGGCTGTGGGT
GGCTTCCTTCTGGATGGTTTTCAAGGAAATCCAACAACCCTGGAGGCTAGACTACGTTGCTGTCATCA
GTCACTGCAGAGCTGCCGAGGACAAGCCAAGGCTCATATCTGGTGTTAGTCGGCCAGATGAGGTGCTC
GAGTGTATTGAAAGAGGAGTGGACTTATTTGAGAGTTTTTCCCTTATCAAGTAACAGAGCGGGATGT
GCCCTGACTTTTCAGTTTTGATTACCAGCCGAATCCTGAAGAGACACTACTACAACAAAATGGAACACAA
GAAGAAATAAAATGTATGGATCAAATAAAGAAAATTGAAACAACCTGGTTGCAACCAAGAAATAACATCA
TTTGAAATTAATCTGAAGGAAAAAAGTACCAGGAGGACTTTAACCCGCTGGTGAGAGGATGTTCTGT
TACTGCTGTAAGAATCACACTCGGCATACATCCACCATCTGCTGGTGACCAATGAGCTGCTGGCCGGA
GTCCTGCTTATGATGCACAACTTTGAACACTACTTTGGGTTTTCCATTACATCCGGGAAGCACTAAAA
AGTGACAAACTGGCACAGTTGAAAGAGCTCATCCACAGGCAAGCATCTGA
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001256837

Insert Size: 879 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).

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).


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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: [NM_001256837.1](#)

RefSeq Size: 3661 bp

RefSeq ORF: 879 bp

Locus ID: 79691

UniProt ID: [Q9H974](#)

Cytogenetics: 3q13.31

MW: 33.5 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 (4) lacks two internal exons, uses an alternate splice site and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (4) has a shorter N-terminus, compared to isoform 1.