

Product datasheet for **RG206325**

QTRTD1 (QTRT2) (NM_024638) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QTRTD1 (QTRT2) (NM_024638) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	QTRTD1
Synonyms:	QTRTD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206325 representing NM_024638 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGCTGAGTCTTACCAAGGTAGTTAATGGCTGTCGCCTAGGAAAAATAAAAAACCTGGGCAAAACAG
 GGGACCACACCATGGATATTCAGGCTGCCTTCTGTATACCAAGACTGGCTCGCCCCACACCTCACCCA
 TCACACGCTGCATAATATCCACGGGTTCTGCCATGGCTCAGCTTACGCTGTCATCCCTAGCAGAACAT
 CATGAAGTCTTGACAGAATATAAAGAAGGAGTTGAAAAGTTTATAGGCATGCCAGAATCACTCTTGTACT
 GCTCCCTGCACGATCCAGTCAGCCCTGCCGGCTGGTTATGTAACAAACAAGTCTGTGTCTGTGTGGAG
 TGTTCAGGACGAGTGGAAATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGG
 TTCCAGTGCCTCTCCGATGGAGAAGTATCTTGAAGGAAGCAACTCCATAAAAAAGGGTCAGAAAAGTCTG
 TTGACCGATCACTTCTTTCTTGATAACTGTCTGCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAG
 TGTGATCATTGGAGTGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTCAGCAGCAGAGACAGCC
 AAGCGGCTGTGGGTGGCTTCTTCTGGATGGTTTTCAAGGAAATCCAACAACCTGGAGGCTAGACTAC
 GCTTGCTGTCATCAGTCACTGCAGAGCTGCCGGAGGACAAGCCAAGGCTCATATCTGGTGTAGTCGGCC
 AGATGAGGTGCTCGAGTGTATTGAAAGAGGAGTGGACTTATTTGAGAGTTTTTCCCTTATCAAGTAACA
 GAGCGGGGATGTGCCCTGACTTTCAGTTTTGATTACCAGCCGAATCCTGAAGAGACACTACTACAACAAA
 ATGGAACACAAGAAGAAAATAAATGTATGGATCAAATAAAGAAAATTGAAACAACCTGGTTGCAACCAAGA
 AATAACATCATTTGAAATTAATCTGAAGGAAAAAAGTACCAGGAGGACTTTAACCCGCTGGTGAGAGGA
 GTTTCCTGTTACTGCTGTAAGAATCACACTCGGCATACATCCACCATCTGCTGGTGACCAATGAGCTGC
 TGGCCGGAGTCTGCTTATGATGCACAACCTTGAACACTACTTTGGGTTTTTCCATTACATCCGGAAGC
 ACTAAAAAGTGACAACTGGCACAGTTGAAAGAGCTCATCCACAGGCAAGCATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206325 representing NM_024638
 Red=Cloning site Green=Tags(s)

MKLSLTKVVNGCRLGKIKNLGKTGDHTMDIPGCLLYTKTGSAPHLTHHTLHNIHGVPAQAQLTSSLAEH
 HEVLTEYKEGVGKFIGMPESLLYCSLHDPVSPCPAGYVTNKSVSWSVAGRVEMTVSKFMAIQALQPDW
 FQCLSDGEVSCKEATSIKRVKRSVDRSLLFLDNCLRLQEESEVLQKSVIIGVIEGGDVMEERLRSARETA
 KRPVGGFLLDGFQGNPTTLEARLRLSSVTAELPEDKPRILISGVSRLPDEVLECIERGVDLFESFFPYQVT
 ERGCALTFSDYQNPETLLQQNGTQEEIKCMDQIKKIETTGCNQEITSFEINLKEKKYQEDFNPLVRG
 CSCYCCKNHTRAYIHLLVTNELLAGVLLMMHNFHYFGFFHYIREALKSDKLAQLKELIHRQAS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_024638

ORF Size: 1245 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024638.4](#)

RefSeq Size: 4008 bp

RefSeq ORF: 1248 bp

Locus ID: 79691

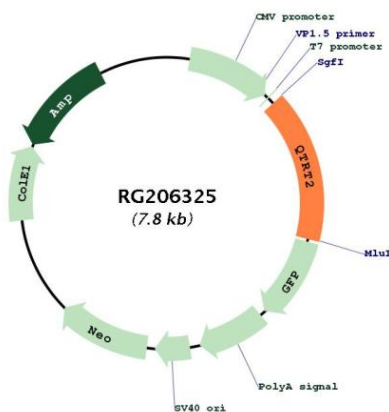
UniProt ID: [Q9H974](#)

Cytogenetics: 3q13.31

Domains: TGT

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]

Product images:



Circular map for RG206325