

Product datasheet for RC206325

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:	Myc-DDK
Symbol:	QTRTD1
Synonyms:	QTRTD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206325 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGCTGAGTCTTACCAAGGTAGTTAATGGCTGTCGCCTAGGAAAAATAAAAACTGGGCAAAACAG
 GGGACCACACCATGGATATTCAGGCTGCCTTCTGTATACCAAGACTGGCTCGCCCCACACCTCACCCA
 TCACACGCTGCATAATATCCACGGGTTCTGCCATGGCTCAGCTTACGCTGTCATCCCTAGCAGAACAT
 CATGAAGTCTTGACAGAATATAAAGAAGGAGTTGAAAAGTTTATAGGCATGCCAGAATCACTCTTGTACT
 GCTCCCTGCACGATCCAGTCAGCCCTGCCGGCTGGTTATGTAACAAACAAGTCTGTGTCTGTGTGGAG
 TGTTCAGGACGAGTGGAAATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGG
 TTCCAGTGCCTCTCCGATGGAGAAGTATCTTGAAGGAAGCAACTCCATAAAAAAGGTCAGAAAAGTCTG
 TTGACCGATCACTTCTTTTCTTGATAACTGTCTGCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAG
 TGTGATCATTGGAGTGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTCAGCAGCAGAGACAGCC
 AAGCGGCTGTGGGTGGCTTCTTCTGGATGGTTTTCAAGGAAATCCAACAACCTGGAGGCTAGACTAC
 GCTTGCTGTCATCAGTCACTGCAGAGCTGCCGGAGGACAAGCCAAGGCTCATATCTGGTGTAGTCGGCC
 AGATGAGGTGCTCGAGTGTATTGAAAGAGGAGTGGACTTATTTGAGAGTTTTTCCCTTATCAAGTAACA
 GAGCGGGGATGTCCCTGACTTTCAGTTTTGATTACCAGCCGAATCCTGAAGAGACACTACTACAACAAA
 ATGGAACACAAGAAGAAATAAAATGTATGGATCAAATAAAGAAAATTGAAACAACCTGGTTGCAACCAAGA
 AATAACATCATTTGAAATTAATCTGAAGGAAAAAAGTACCAGGAGGACTTTAACCCGCTGGTGAGAGGA
 GTTTCCTGTTACTGCTGAAGAATCACACTCGGCATACATCCACCATCTGCTGGTGACCAATGAGCTGC
 TGGCCGGAGTCTGCTTATGATGCACAACCTTGAACACTACTTTGGGTTTTTCCATTACATCCGGAAGC
 ACTAAAAAGTGACAACTGGCACAGTTGAAAGAGCTCATCCACAGGCAAGCATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC206325 protein sequence
 Red=Cloning site Green=Tags(s)

MKLSLTKVVNGCRLGKIKNLGKTGDHTMDIPGCLLYTKTGSAPHLTHHTLHNIHGVPAQAQLTLSSLAEH
 HEVLTEYKEGVGKFIGMPESLLYCSLHDPVSPCPAGYVTNKSVSWSVAGRVEMTVSKFMAIQALQPDW
 FQCLSDGEVSCKEATSIKRVKSVDRSLLFLDNCLRLQEESEVLQKSVIIGVIEGGDVMEERLRSARETA
 KRPVGGFLLDGFQGNPTTLEARLRLSSVTAELPEDKPRLISGVSRLPDEVLECIERGVDLFESFFPYQVT
 ERGCALTFSDYQNPPEETLLQQNGTQEEIKCMDQIKKIETTGCNQEITSFEINLKEKKYQEDFNPLVRG
 CSCYCCKNHTRAYIHLLVTNELLAGVLLMMHNFHYFGFFHYIREALKSDKLAQLKELIHRQAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6139_c07.zip

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: 4025 bp

RefSeq ORF: 1248 bp

Locus ID: 79691

UniProt ID: [Q9H974](#)

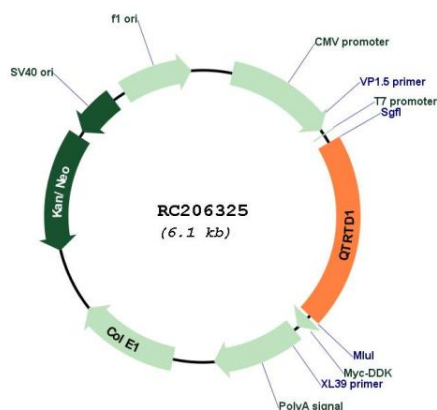
Cytogenetics: 3q13.31

Domains: TGT

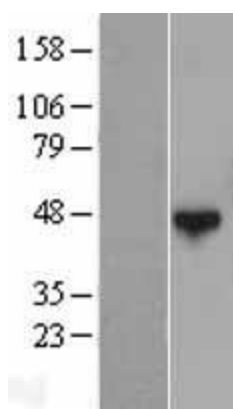
MW: 46.7 kDa

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]

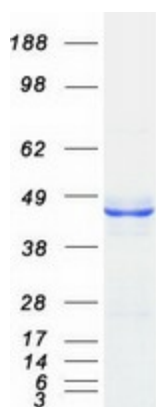
Product images:



Circular map for RC206325



Western blot validation of overexpression lysate (Cat# [LY403022]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206325 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified QTRT2 protein (Cat# [TP306325]). The protein was produced from HEK293T cells transfected with QTRT2 cDNA clone (Cat# RC206325) using MegaTran 2.0 (Cat# [TT210002]).