

Product datasheet for **SC111450**

QTRT1 (NM_031209) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QTRT1 (NM_031209) Human Untagged Clone
Tag:	Tag Free
Symbol:	QTRT1
Synonyms:	FP3235; TGT; TGUT
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_031209, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGAGCAGCTACCCAGGCTTCCCTGGAGTCGGCCCCACGGATCATGCGGCTGGTGGCCGAATGCA
GCCGCTCCAGGGCCCGGCAGGCGAGCTGTGGCTGCCGCATGGGACAGTGGCCACTCCTGTGTTTCATGCC
AGTGGGCACGCAGGCCACCATGAAGGGCATCACGACCGAACAGCTGGACGCTCTGGGTTGCCGCATCTGC
CTGGGCAATACCTACCATCTGGGTCTAAGGCCGGGACCCGAGCTGATCCAGAAAGCCAACGGTCTCCACG
GCTTCATGAATTGGCCTCATAATCTGCTAACGGACAGCGCGGTTTCCAGATGGTGTGCTGGTGTCTCT
GTCCGAGGTGACGGAGGAGGGCGTCCGCTTCCGCTCCCCCTACGACGGCAATGAGACCCTGCTGAGCCCG
GAGAAATCCGTGCAGATCCAGAATGCGCTGGGCTCGGACATCATCATGCAGCTGGACGACGTGGTTAGCA
GTA CTGTGACTGGGCCACGTGTGGAGGAGGCCATGTACAGGTCAATCCGCTGGCTGGACCGGTGCATTGC
AGCCCATCAGCGGCCGACAAGCAGAACCTCTTCGCCATTATCCAGGGTGGGCTGGACGCAGATCTCCGG
GCCACCTGCCTTGAAGAGATGACCAAGCGAGACGTGCCTGGCTTCGCCATCGGGGGCCTGAGCGGGGGTG
AGAGCAAGTCGCAGTTCTGGCGGATGGTGGCGCTGAGCACCTCTCGGCTGCCAAGGACAAGCCCCGATA
TCTGATGGGGGTTGGCTATGCCACTGATCTGGTAGTCTGCGTGGCTCTTGATGTGACATGTTGACTGC
GTCTTCCCCACACGGACAGCGCGCTTTGGCTCTGCCCTGGTGGCCACTGGGAACCTGCAGTTGAGGAAGA
AGGTGTTTGAGAAGGACTTCGGCCCATAGACCCGGAGTGACACCTGCCACGTGCCAAAAGCACAGCCG
CGCCTTCTGCACGCACTGCTGCACAGTGACAACACGGCCGCGCTGCACACCTCACGGTCCACAACATC
GCCTACCAGCTGCAGCTCATGAGCGCCGTCGCACCCAGCATCGTGGAGAAGCGCTTCCCGGACTTCGTGC
GGGACTTCATGGGCGCCATGTACGGGATCCCACCCTCTGTCCCACCTGGGCCACTGACGCTCTGGCCTC
TGTGGGAATCACACTGGGCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031209 unedited
 NGGTGCACATTTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGAGTCAAG
 ATGGCGGGAGCAGCTACCCAGGCTTCCCTGGAGTCGGCCCCACGGATCATGCGGCTGGTG
 GCCGAATGCAGCCGCTCCAGGGCCCGGGCAGGCGAGCTGTGGCTGCCGCATGGGACAGTG
 GCCACTCTGTGTTTCATGCCAGTGGGCACGCAGGCCACCATGAAGGGCATCACGACCGAA
 CAGCTGGACGCTCTGGGTTGCCGCATCTGCCTGGGCAATACCTACCATCTGGGTCTAAGG
 CCGGGACCCGAGCTGATCCAGAAAGCCAAACGGTCTCCACGGCTTCATGAATTGGCCTCAT
 AATCTGTCTAACGGACAGCGGCGGTTTCCAGATGGTGTGCTGCTGCTCTGTCCGAGGTG
 ACGGAGGAGGGCGTCCGCTTCCGCTCCCCCTACGACGGCAATGAGACCCTGCTGAGCCCG
 GAGAAATCCGTGCAGATCCAGAATGCGCTGGGCTCGGACATCATCATGCAGCTGGACGAC
 GTGGTTAGCAGTACTGTGACTGGCCACGTGTGGAGGAGGCCATGTACAGGTCAATCCGC
 TGGCTGGACCGGTGCATTGCAGCCCATCAGCGGCCGACAAGCAGAACCTCTTCGCCATT
 ATCCAGGGTGGGCTGGACGCAGATCTCCGGCCACCTGCCTTGAAGAGATGACCAAGCGA
 GACGTGCCTGGCTTCGCCATCGGGGCTGAGCGGNGGTGAGAGCAAGTCGCAGTTCTGG
 CGGATGGTGGCGCTGAGCACCTCTCGGCTGCCGAAGACAAGCCCGATATCTGAGGGGT
 TGGGTATGTTGTGGATAGGGAAGCCGNACCCTCCTGTGGGAAGTGGTATCCTGGGACCC
 CCTACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031209 unedited
 AAAAGAGCTACGTGNANAAAAAACCNCCTTCTAGGTAATGCCTTGCCTATNCTTACCA
 ACACCCTACCGCTCCCTTGCCTTTTCTCCCTCNCCTTCTCCCAATGGCCGAGGTCAGCT
 CCAGTGTGTAATCCACAGAGGCCAGGGCGTTATTGGCCCATGTGGGACAGAGGGTGGGA
 TCCTCGTTCATGGTGCCCATGAAGTCCCGTACGAAGTCCGGGTAGCGCTTCTCCACCAT
 GCTGTTTTCTACGGCGCTCATTACCTGCAGGGCGGGGCGATGTTTTGCACCTTGAGGTG
 GTGCATCGCCGTTGCTGTTTTCACTGTTTCATCATTTCTTTTTCAGGAAGGCCCGGCTTGT
 GCTTTTTCGGCCCTCTGTTGCCAGTGCCTTCTGTTTATGGGGCTCTAAATCCTTTTT
 TAAACCCCTTCTTTTTTACCTTCTGTTCCCTTGTGGCCACCGCACTATCCAATTTCGC
 CCTTTCCCTGTGGGAAAACGCCCTCCACCATGTACATCCCAGACCTCTGCTTACTTCTCT
 ATTATTTGCTTATCTTGTGTTGTTTCTTGACCGCAGTGGCCGATAACCTTATGTGCTTC
 CTTTGGCCCTCCCAACCCTTACATTGCCCACTATAGTTCCCTTTTCCCTCACATTG
 CCCCTTCTGGATAACCATCGTTTTCTATTCTCCTTAGATCATCCCTGTCTTCCCTTCC
 TCCATATGCTCCTTCCCACTCTGTGTAGGGTGTCTCCATGCATTCACTCCACAGGTCG
 GGCCCTAGCTTCTATCACACATACCAATCTTCTAACAACTCCCCCTCGCCTTCC
 TTCCCTTAGTCTTTGCCCTTTCGCTTACCTTGTATTTTCTTCCCCCTTCTGTCTT
 CACGAAAAATCCCCCTTCTTTCTTCGCATATTTTATGAGTGAGCTCTGCCTTG

Restriction Sites:

NotI-NotI

ACCN:

NM_031209

Insert Size:

1580 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).

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_031209.1](#), [NP_112486.1](#)

RefSeq Size: 1313 bp

RefSeq ORF: 1212 bp

Locus ID: 81890

UniProt ID: [Q9BXR0](#)

Cytogenetics: 19p13.2

Domains: TGT

Gene Summary: This gene encodes the catalytic 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. A pseudogene of this gene is located on the long arm of chromosome X. [provided by RefSeq, Feb 2012]