

## Product datasheet for **RR207670**

### Qtrt1 (NM\_022250) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Qtrt1 (NM_022250) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Qtrt1
Synonyms:	Tgt; Tgut
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207670 representing NM_022250 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGCGCGGTAGGCAGCCAGGTTGCTTGGTCCGCTCCACGAATCATGCGGCTAGTCGCTGAGTGCA  
GTCGCTCCAGAGCTCGGGCCGGTGGAGCTGCGGCTGCCGATGGAACGGTAGCCACCCCTGTGTTTCATGCC  
TGTGGGTACACAGGCCACCATGAAGGTATCACCGCGGAGCAGCTGGACTCCCTGGGCTGCCGCATCTGC  
TTGGGCAACACCTACCATCTGGGGTTGAGCGCCGGTCCGGAGCTGATCCAGAAAGCTCACGGTCTTCAGG  
GTTTCATGAATTGGCCCCACAATCTGCTGACGGATAGCGCGGGCTTCCAGATGGTGTCTCTCATCTCCTT  
GTCCGAGGTGACGGAGGAGGGCGTCCGCTTCCGCTCGCCCTATGATGGAGAAGAGACACTTTTGAGCCCA  
GAGAGGTGCGTGGAGATCCAGAACGCTCTGGGCTCGGACATCATGCAGTTGGACGATGTGGTGGCA  
GCACGGTGACAGGCCCTCGAGTGGAGGAGGCCATGCACAGGTGAGTCCGCTGGCTGGACAGATGCATCGC  
AGCCATAAAGCGTCAGGACAAGCAGAACCTCTTTGCCATCATCCAGGGCGGACTGAATGCTGATCTTCGG  
ACCACTTGCTGAAAGAGATGACCAAGAGGGATGTGCCGGCTTTGCCATCGGAGGTCTGAGCGGAGGAG  
AGAGCAAGGAGCAGTTCTGGAAGATGGTGGCATTGAGCACCTCCATGCTGCCTAAGGACAAGCCACGCTA  
CCTGATGGGGTTGGCTATGCCACCGATTTGGTGGTCTGCGTGGCCCTTGATGTGACATGTTTCGACTGT  
GTATACCCACACGACAGCGCTTTTGGATCCGCTTGTGCCACTGGAACTGCAGTTGAAGAAGC  
AGCAGTACGCCAAGGACTTCAGCCCCATAAACCCCGAGTGTCCCTGTGCCACCTGCCAGACGCACAGCCG  
CGCCTTCTTGCACACCCTGCTGCACAGTGAACAACCCGACGCTGCACACCTCACCGTGCACAACATT  
GCCTATCAGTGCAGCTCCTGAGCGCCGCGCAGCAGTATCTTGAACAGCGCTTCCCGACTTCGTGC  
GGAACCTCATGCGGACCATGTATGGGGACCACAGCCTCTGTCTGCTGGCCATTGAAGCACTGGCCTC  
TGTGGGAATCACACTACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>ORF Size:</b>	1209 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022250.2</a> , <a href="#">NP_071586.2</a>
<b>RefSeq Size:</b>	1431 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	64016
<b>UniProt ID:</b>	<a href="#">Q4QR99</a>
<b>Cytogenetics:</b>	8q13
<b>MW:</b>	44.2 kDa
<b>Gene Summary:</b>	catalyzes exchange of queuine (the base of queuosine, Q) in tRNA queuosine biosynthesis [RGD, Feb 2006]