

Product datasheet for **RG212190**

QTRT1 (NM_031209) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	QTRT1
Synonyms:	FP3235; TGT; TGUT
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG212190 representing NM_031209
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCGGGAGCAGCTACCCAGGCTTCCCTGGAGTCGGCCCCACGGATCATGCGGCTGGTGGCCGAATGCA
GCCGCTCCAGGGCCCGGCAGGCGAGCTGTGGCTGCCGCATGGGACAGTGGCCACTCCTGTGTTTCATGCC
AGTGGGCACGCAGGCCACCATGAAGGGCATCACGACCAACAGCTGGACGCTCTGGGTTGCCGCATCTGC
CTGGGCAATACCTACCATCTGGGTCTAAGGCCGGGACCCGAGCTGATCCAGAAAGCCAACGGTCTCCACG
GCTTCATGAATTGGCCTCATAATCTGCTAACGGACAGCGCGGTTTCCAGATGGTGTCTGCTGGTGTCTCT
GTCCGAGGTGACGGAGGAGGGCGTCCGCTTCCGCTCCCCCTACGACGGCAATGAGACCCTGCTGAGCCCCG
GAGAAATCCGTGCAGATCCAGAATGCGCTGGGCTCGGACATCATCATGCAGCTGGACGACGTGGTTAGCA
GTACTGTGACTGGGCCACGTGTGGAGGAGGCCATGTACAGGTCAATCCGCTGGCTGGACCGGTGCATTGC
AGCCCATCAGCGGCCGACAAGCAGAACCTCTTCGCCATTATCCAGGGTGGGCTGGACGCAGATCTCCGG
GCCACCTGCCTTGAAGAGATGACCAAGCGAGACGTGCCTGGCTTCGCCATCGGGGGCCTGAGCGGGGGTG
AGAGCAAGTCGAGTTCTGGCGGATGGTGGCGCTGAGCACCTCTCGGCTGCCGAAGGACAAGCCCCGATA
TCTGATGGGGGTTGGCTATGCCACTGATCTGGTAGTCTGCGTGGCTCTTGGATGTGACATGTTGACTGC
GTCTTCCCCACACGGACAGCGCGCTTTGGCTCTGCCCTGGTGCCCACTGGGAACCTGCAGTTGAGGAAGA
AGGTGTTTGAGAAGGACTTCGGCCCCATAGACCCGGAGTGCACCTGCCCCACGTGCCAAAAGCACAGCCG
CGCCTTCTGCACGCACTGCTGCACAGTGACAACACGGCCGCGCTGCACCACCTCACGGTCCACAACATC
GCCTACCAGCTGCAGCTCATGAGCGCGTCCGCACCAGCATCGTGAGAAGCGCTTCCCGGACTTCGTGC
GGGACTTCATGGGCGCCATGTACGGGGATCCCACCCTCTGTCCACCTGGGCCACTGACGCTCTGGCCTC
TGTGGGAATCACACTTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG212190 representing NM_031209
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MAGAATQASLESAPRIMRLVAECSSRRARAGELWLPHTVATPVFMPVGTQATMKGITTEQLDALGCRIC
LGNTYHLGLRPGPELIQKANGLHGFNMWPHNLLTDSGGFQMVSLVSLSEVTEEGVFRSPYDGNETLLSP
EKSVQIQNALGSDIIMQLDDVSVSTVTGPRVEEAMYSIRWLDRCIAAHQRPDKQNLFAIIQGGLDADLR
ATCLEEMTKRDVPGFAIGGLSGGESKQFWRMVALSTSRLPKDKPRYLMGVGYATDLVVCVALGCDMFDC
VFPTRTARFGSALVPTGNLQLRKKVFEDFGPIDPECTCPTCQKHSRAFLHALLHSDNTAALHHLTVHNI
AYQLQLMSAVRTSIVEKRFPDFVRDFMGAMYGDPTLCPTWATDALASVGITLG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031209

ORF Size: 1209 bp

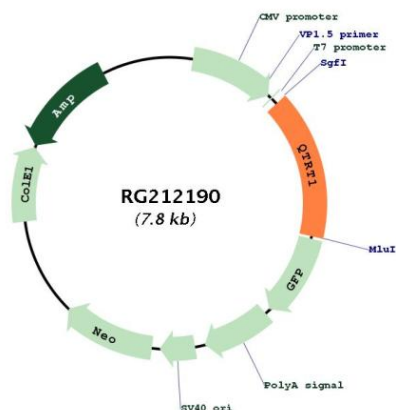
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_031209.1, NP_112486.1</u>
RefSeq Size:	1313 bp
RefSeq ORF:	1212 bp
Locus ID:	81890
UniProt ID:	<u>Q9BXR0</u>
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]

Product images:



Circular map for RG212190