

Product datasheet for **RG202960**

QPRT (NM_014298) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: QPRT (NM_014298) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: QPRT
Synonyms: HEL-S-90n; QPRTase
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202960 representing NM_014298
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGACGCTGAAGGCCTGGCGTCTGCTGCCGCCGTACCCTGGCAGCCCTGGTGGACAGCTGGCTCC
 GAGAGGACTGCCAGGGCTCAACTACGCAGCCTTGGTCAGCGGGCAGGCCCTCGCAGGCGGCGTGTG
 GGCCAAATCCCCTGGGATACTGGCAGGGCAGCCTTTCTTCGATGCCATATTTACCCAACCACTGCCAA
 GTCTCCTGGTTCCCTCCCGAGGGATCGAAGCTGGTGCCGGTGGCCAGAGTGGCCGAGGTCCGGGGCCCTG
 CCCACTGCCTGCTGCTGGGGAACGGGTGGCCCTCAACACGCTGGCCCGCTGCAGTGGCATTGCCAGTGC
 TGCCGCCGCTGCAGTGGAGGCCGCCAGGGGGCCGGCTGGACTGGGCACGTGGCAGGCACGAGGAAGACC
 ACGCCAGGCTTCCGGCTGGTGGAGAAGTATGGGCTCCTGGTGGCGGGGCCCGCTCGCACCGCTACGACC
 TGGGAGGGCTGGTGGTGAAGGATAACCATGTGGTGGCCGCCGGTGGCGTGGAGAAGGCGGTGCGGGC
 GGCCAGACAGGCGGCTGACTTCGCTCTGAAGGTGGAAGTGAATGCAGCAGCCTGCAGGAGGCCGTGCAG
 GCAGCTGAGGCTGGTGGCAGCTTGTCTGTGGACAACCTCAAGCCAGAGGAGCTGCACCCACGGCCA
 CCGTGTGAAGGCCAGTCCCAGTGTGGCTGTGGAAGCCAGTGGGGCATCACCTGGACAACCTCCC
 CCAGTTCTGGGGCCGCACATAGACGTATCTCCATGGGGATGCTGACCCAGGCGGCCCCAGCCCTTGAT
 TTCTCCCTCAAGCTGTTTGCCAAAGAGGTGGCTCCAGTGCCAAAATCCAC

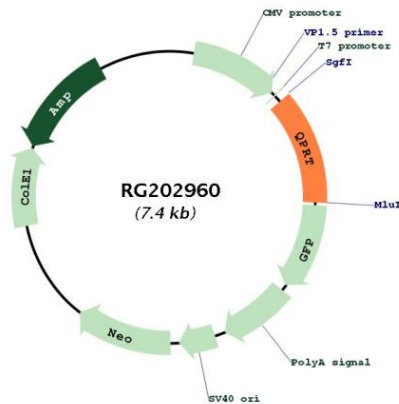
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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:	<ol style="list-style-type: none"> 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:	<u>NM_014298.3</u> , <u>NP_055113.2</u>
RefSeq Size:	1575 bp
RefSeq ORF:	894 bp
Locus ID:	23475
UniProt ID:	<u>Q15274</u>
Cytogenetics:	16p11.2
Domains:	QRPTase
Protein Pathways:	Metabolic pathways, Nicotinate and nicotinamide metabolism
Gene Summary:	This gene encodes a key enzyme in catabolism of quinolinate, an intermediate in the tryptophan-nicotinamide adenine dinucleotide pathway. Quinolinate acts as a most potent endogenous exitotoxin to neurons. Elevation of quinolinate levels in the brain has been linked to the pathogenesis of neurodegenerative disorders such as epilepsy, Alzheimer's disease, and Huntington's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG202960