

Product datasheet for **SC310560**

QPRT (NM_014298) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	QPRT (NM_014298) Human Untagged Clone
Tag:	Tag Free
Symbol:	QPRT
Synonyms:	HEL-S-90n; QPRTase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_014298.3

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CACCAGCCCAGACAGCTGCAAGTCACCATGGACGCTGAAGGCCTGGCGCTGCTGCTGCCG
CCCGTCACCCCTGGCAGCCCTGGTGGACAGCTGGCTCCGAGAGGACTGCCAGGGCTCAAC
TACGCAGCCTTGGTCAGCGGGGCAGGCCCTCGCAGGCGGCGCTGTGGGCCAAATCCCT
GGGATACTGGCAGGGCAGCCTTTCTTCGATGCCATATTTACCCAACCTCAACTGCCAAGTC
TCCTGGTTCCTCCCGAGGGATCGAAGCTGGTGGCGGTGGCCAGAGTGGCCGAGGTCCGG
GGCCCTGCCCACTGCCTGCTGCTGGGGGAACGGGTGGCCCTCAACACGCTGGCCCGCTGC
AGTGGCATTGCCAGTGTGCCGCCGCTGCAGTGGAGGCCGCCAGGGGGCCGGCTGGACT
GGGCACGTGGCAGGCACGAGGAAGACCACGCCAGGCTTCCGGCTGGTGGAGAAGTATGGG
CTCCTGGTGGGCGGGCCGCTCGCACCGCTACGACCTGGGAGGGCTGGTGATGGTGAAG
GATAACCATGTGGTGGCCGCCGCTGGCGTGGAGAAGGCGGTGCGGGCGGCCAGACAGGCG
GCTGACTTCGCTCTGAAGGTGGAAGTGAATGCAGCAGCCTGCAGGAGGCCGTGCAGGCA
GCTGAGGCTGGTGCCGACCTTGCTGCTGGACAACCTCAAGCCAGAGGAGCTGCACCCC
ACGGCCACCGTGTGAAGGCCAGTTTCCGAGTGTGGCTGTGGAAGCCAGTGGGGGCATC
ACCCTGGACAACCTCCCCAGTTCTGCGGGCCGCACATAGACGTCATCTCCATGGGGATG
CTGACCCAGGCGGCCCCAGCCCTTGATTCTCCCTCAAGCTGTTTGCCAAAGAGGTGGCT
CCAGTGCCCAAAATCCACTAGTCCTAAACCGGAAGAGGATGACACCGCCATGGGTAAAC
GTGGCTCCTCAGGACCCCTCTGGGTACACATCTTTAGGGTCAGTGGCCAATGGGGACAT
TTGGCACTAGCTTGAGCCCAACTCTGGCTCTGCCACCTGCTGCTCCTGTGACCTGTCAGG
GCTGACTTCACCTCTGCTCATCTCAGTTTCCTAATCTGTAATAATGGGTCTAATAAAGGAT
CAACCACATGGGGTTCTGCGGTGATAATGAGCACATAGTGAGGGGTGAGCAAAATGTCAGA
AGTTACCTGGGACAGCGGGCACGATGGCTCACACCTGTAATCCCAGCACTTTGGGAGGC
TGAGGCGGGAAGATCACTTGAGTTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAA
CCCCATCTCTACCAAAAAATAGAAGAAATTAGCTGGGTGTGGTGGCACGCGCCTGTAATCCC
AGCTACTTAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCAGGAAGTGGAGGTTGCAGTG
AGCTGATGGTGCCACTGCACTCCAGCCTGGGTGATAGAGCGAGACTCTGTCTCCAAAGAA
GAAACAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_014298
Insert Size:	894 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_014298.4
RefSeq Size:	2385 bp
RefSeq ORF:	894 bp
Locus ID:	23475
UniProt ID:	Q15274
Cytogenetics:	16p11.2
Domains:	QRPTase
Protein Pathways:	Metabolic pathways, Nicotinate and nicotinamide metabolism
MW:	30.8 kDa

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 excitotoxin 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).