

## Product datasheet for **RC202960L4V**

### QPRT (NM\_014298) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	QPRT (NM_014298) Human Tagged ORF Clone Lentiviral Particle
Symbol:	QPRT
Synonyms:	HEL-S-90n; QPRTase
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_014298
ORF Size:	891 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC202960).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_014298.3</a>
RefSeq Size:	1575 bp
RefSeq ORF:	894 bp
Locus ID:	23475
UniProt ID:	<a href="#">Q15274</a>
Cytogenetics:	16p11.2
Domains:	QRPTase
Protein Pathways:	Metabolic pathways, Nicotinate and nicotinamide metabolism



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**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]