

## Product datasheet for **TP302960L**

### QPRT (NM\_014298) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human quinolinate phosphoribosyltransferase (QPRT), 1 mg  |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC202960 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |
|                                       | <p>MDA EGLALLLPVTLAALVDSWLREDCPGLNYAALVSGAGPSQAALWAKSPGILAGQPFFDAIFTQLNCQ<br/>VSWFLPEGSKLVPVARVAEVRGPAHCLLLGERVALNLTARCSGIASAAAAAEEAARGAGWTGHVAGTRKT<br/>TPGFRLVEKYGLLVGGAASHRYDLGGLVMVKDNHVVAAAGGVEKAVRAARQAADFALKVEVECSSLQEAVQ<br/>AAEAGADLVLLDNFKPEELHPTATVLKAQFSPVAVEASGGITLDNLPQFCGPHIDVISMGMLTQAAPALD<br/>FSLKLFKEVAPVPIKH</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-Myc/DDK  |
| Predicted MW:                         | 30.6 kDa   |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:                          | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.   |
| Note:                                 | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.   |
| Storage:                              | Store at -80°C.  |
| Stability:                            | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| RefSeq:                               | <u><a href="#">NP_055113</a></u>   |
| Locus ID:                             | 23475  |



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UniProt ID: [Q15274](#), [V9HWJ5](#), [B4DDH4](#)

RefSeq Size: 1575

Cytogenetics: 16p11.2

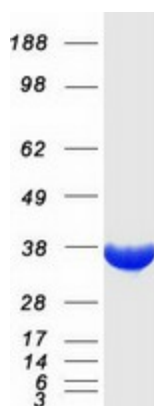
RefSeq ORF: 891

Synonyms: HEL-S-90n; QPRTase

**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]

**Protein Pathways:** Metabolic pathways, Nicotinate and nicotinamide metabolism

### Product images:



Coomassie blue staining of purified QPRT protein (Cat# [TP302960]). The protein was produced from HEK293T cells transfected with QPRT cDNA clone (Cat# [RC202960]) using MegaTran 2.0 (Cat# [TT210002]).