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# Product datasheet for RC217737L1V

## QDPR (NM_000320) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | QDPR (NM_000320) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | QDPR |
| **Synonyms:** | DHPR; HDHPR; PKU2; SDR33C1 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-Myc-DDK (PS100064) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_000320 |
| **ORF Size:** | 732 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC217737). |
| **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. |
| **RefSeq:** | NM_000320.1 |
| **RefSeq Size:** | 1550 bp |
| **RefSeq ORF:** | 735 bp |
| **Locus ID:** | 5860 |
| **UniProt ID:** | P09417 |
| **Cytogenetics:** | 4p15.32 |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | Folate biosynthesis, Metabolic pathways |

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**MW:** 25.6 kDa

**Gene Summary:** This gene encodes the enzyme dihydropteridine reductase, which catalyzes the NADH-mediated reduction of quinonoid dihydrobiopterin. This enzyme is an essential component of the pterin-dependent aromatic amino acid hydroxylating systems. Mutations in this gene resulting in QDPR deficiency include aberrant splicing, amino acid substitutions, insertions, or premature terminations. Dihydropteridine reductase deficiency presents as atypical phenylketonuria due to insufficient production of biopterin, a cofactor for phenylalanine hydroxylase. [provided by RefSeq, Jul 2008]