# Product datasheet for RC229928L2V

## HPD (NM_001171993) Human Tagged ORF Clone Lentiviral Particle

## Product data:

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|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | HPD (NM_001171993) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | HPD |
| **Synonyms:** | 4-HPPD; 4HPPD; GLOD3; HPPDASE; PPD |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-mGFP (PS100071) |
| **Tag:** | mGFP |
| **ACCN:** | NM_001171993 |
| **ORF Size:** | 1062 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC229928). |
| **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_001171993.1, NP_001165464.1 |
| **RefSeq ORF:** | 1065 bp |
| **Locus ID:** | 3242 |
| **UniProt ID:** | P32754 |
| **Cytogenetics:** | 12q24.31 |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism, Ubiquinone and other terpenoid-quinone biosynthesis |

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**MW:** 40.9 kDa

**Gene Summary:** The protein encoded by this gene is an enzyme in the catabolic pathway of tyrosine. The encoded protein catalyzes the conversion of 4-hydroxyphenylpyruvate to homogentisate. Defects in this gene are a cause of tyrosinemia type 3 (TYRO3) and hawkinsinuria (HAWK). Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]