

## Product datasheet for **RC228112L3V**

### DPYD (NM\_001160301) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | DPYD (NM_001160301) Human Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | DPYD   |
| Synonyms:                 | DHP; DHPDHASE; DPD   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_001160301   |
| ORF Size:                 | 519 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC228112).   |
| 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_001160301.1</a> , <a href="#">NP_001153773.1</a>  |
| RefSeq ORF:               | 522 bp   |
| Locus ID:                 | 1806   |
| UniProt ID:               | <a href="#">Q12882</a>   |
| Cytogenetics:             | 1p21.3   |
| Protein Families:         | Druggable Genome   |
| Protein Pathways:         | beta-Alanine metabolism, Drug metabolism - other enzymes, Metabolic pathways, Pantothenate and CoA biosynthesis, Pyrimidine metabolism   |



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**MW:** 18.8 kDa

**Gene Summary:** The protein encoded by this gene is a pyrimidine catabolic enzyme and the initial and rate-limiting factor in the pathway of uracil and thymidine catabolism. Mutations in this gene result in dihydropyrimidine dehydrogenase deficiency, an error in pyrimidine metabolism associated with thymine-uraciluria and an increased risk of toxicity in cancer patients receiving 5-fluorouracil chemotherapy. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]