

Product datasheet for **RC213008L3V**

CPS1 (NM_001875) Human Tagged ORF Clone Lentiviral Particle

Product data:

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| Product Type: | Lentiviral Particles |
| Product Name: | CPS1 (NM_001875) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | CPS1 |
| Synonyms: | CPSASE1; GATD6; PHN |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| Tag: | Myc-DDK |
| ACCN: | NM_001875 |
| ORF Size: | 4500 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC213008). |
| 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_001875.2 , NP_001866.2 |
| RefSeq Size: | 5761 bp |
| RefSeq ORF: | 4503 bp |
| Locus ID: | 1373 |
| UniProt ID: | P31327 |
| Cytogenetics: | 2q34 |
| Domains: | GATase, CPSase_sm_chain, MGS, CPSase_L_D2, CPSase_L_D3, CPSase_L_chain |
| Protein Families: | Druggable Genome |



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| Protein Pathways: | Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways, Nitrogen metabolism |
| MW: | 164.94 kDa |
| Gene Summary: | The mitochondrial enzyme encoded by this gene catalyzes synthesis of carbamoyl phosphate from ammonia and bicarbonate. This reaction is the first committed step of the urea cycle, which is important in the removal of excess urea from cells. The encoded protein may also represent a core mitochondrial nucleoid protein. Three transcript variants encoding different isoforms have been found for this gene. The shortest isoform may not be localized to the mitochondrion. Mutations in this gene have been associated with carbamoyl phosphate synthetase deficiency, susceptibility to persistent pulmonary hypertension, and susceptibility to venoocclusive disease after bone marrow transplantation.[provided by RefSeq, May 2010] |