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Product datasheet for RC213008L1V

CPS1 (NM_001875) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	CPS1 (NM_001875) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CPS1
Synonyms:	CPSASE1; GATD6; PHN
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
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]