

## Product datasheet for **RC220566L4V**

### CTPS2 (NM\_175859) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	CTPS2 (NM_175859) Human Tagged ORF Clone Lentiviral Particle
Symbol:	CTPS2
Synonyms:	GATD5B
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_175859
ORF Size:	1758 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC220566).
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_175859.1</a>
RefSeq Size:	3973 bp
RefSeq ORF:	1761 bp
Locus ID:	56474
UniProt ID:	<a href="#">Q9NRF8</a>
Cytogenetics:	Xp22.2
Protein Pathways:	Metabolic pathways, Pyrimidine metabolism
MW:	65.7 kDa



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**Gene Summary:**

The protein encoded by this gene catalyzes the formation of CTP from UTP with the concomitant deamination of glutamine to glutamate. This protein is the rate-limiting enzyme in the synthesis of cytosine nucleotides, which play an important role in various metabolic processes and provide the precursors necessary for the synthesis of RNA and DNA. Cancer cells that exhibit increased cell proliferation also exhibit an increased activity of this encoded protein. Thus, this protein is an attractive target for selective chemotherapy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]