

## Product datasheet for **TP326565L**

### CTPS2 (NM\_001144002) Human Recombinant Protein

#### Product data:

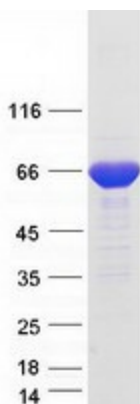
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human CTP synthase II (CTPS2), transcript variant 3, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC226565 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLNDGGGEVDLD  LGNYERFLDINLYKDNNITTGKIYQHVINKERRGDYLGKTVQVPHITDAVQEWVMNQAKVPVDGNKEEP  QICVIELGGTIGDIEGMPFVEAFRQFQKAKRENFNCNIHVSLVPQLSATGEQKTKPTQNSVRALRGLGLS  PDLIVCRSSTPIEMAVKEKISMFCHVNPEQVICIHDVSSTYRVPVLLEEQSIVKYFKERLHLPIGDSASN  LLFKWRNMADRYERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEKITETED  PVKFHEAWQKLCKADGILVPGGFGIRGTLGKLQAISWARTKKIPFLGVCLGMQLAVIEFARNCLNLKDAD  STEFRPNAPVPLVIDMPEHNPGNLGGTMRLGIRRTVFKTENSILRKLYGDVPFIEERHRRHFEVNPNLIK  QFEQNDSLFSVGQDVGDRMEIILANHPYFVGQVFHPEFSSRPMKPSPPYLGLLLAATGNLNAYLQQGCK  LSSSDRYSDASDDSFSEPRIAELEIS</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	65.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_001137474</u>
<b>Locus ID:</b>	56474
<b>UniProt ID:</b>	<u>Q9NRF8, A0A024RC00</u>
<b>RefSeq Size:</b>	4334
<b>Cytogenetics:</b>	Xp22.2
<b>RefSeq ORF:</b>	1758
<b>Synonyms:</b>	GATD5B
<b>Summary:</b>	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]
<b>Protein Pathways:</b>	Metabolic pathways, Pyrimidine metabolism

### Product images:



Coomassie blue staining of purified CTPS2 protein (Cat# [TP326565]). The protein was produced from HEK293T cells transfected with CTPS2 cDNA clone (Cat# [RC226565]) using MegaTran 2.0 (Cat# [TT210002]).