

# Recombinant Full Length Human CTPS2 Protein, GST-tagged

**Cat. No.** CTPS2-2322HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CTPS2 full-length ORF ( AAH34986, 1 a.a. - 586 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	586 amino acids
<b>Description</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>Molecular Mass</b>	90.2 kDa
<b>AA Sequence</b>	MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGGEVFLN DGGEVDLDLGNYSERFLDINLYKDNNITGKIYQHVINKERRGDYLGKTVQVVPHTDA VQEWVMNQAKVPVDGNKEEPQICVIELGGTIGDIEGMPFVEAFRQFQFKAKRENFC NIHVSLVPQLSATGEQKTKPTQNSVRALRGLGLSPDLIVCRSSTPIEMAVKEKISMFC HVNPEQVICIHDVSSTYRVPVLLLEEQSIVKYFKERLHLPIGDSASNLLFKWRNMADRY

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEKITETEDPV  
 KFHEAWQKLCADGILVPGGFGIRGTLGKQLAISWARTKKIPFLGVCLGMQLAVIEFA  
 RNCLNLKADADSTEFRPNAPVPLVIDMPEHNPGNLGGTMRLGIRRTVFKTENSILRKL  
 YGDVPFIEERHRHRFEVNPNIKQFEQNDLSFVGQDVDGDRMEIIELANHPYFVGQVQ  
 FHPEFSSRPMKPSPPYLGLLLAATGNLNAYLQQGCKLSSSDRYSDASDDSFSEPRIA  
 ELEIS

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	CTPS2 CTP synthase II [ Homo sapiens ]
<b>Official Symbol</b>	CTPS2
<b>Synonyms</b>	CTPS2; CTP synthase II; CTP synthase 2; CTP synthetase 2; UTP-ammonia ligase; CTP synthetase type 2; UTP--ammonia ligase 2; CTP synthetase isoform; cytidine 5-triphosphate synthetase 2; FLJ43358; MGC32997; DKFZp686C17207;
<b>Gene ID</b>	56474
<b>mRNA Refseq</b>	NM_001144002



**Protein Refseq** NP\_001137474

**MIM** 300380

**UniProt ID** Q9NRF8

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