

## Product datasheet for **TP302434M**

### CTP synthase (CTPS1) (NM\_001905) Human Recombinant Protein

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Recombinant Proteins                                     |
| Description:          | Recombinant protein of human CTP synthase (CTPS), 100 µg |
| Species:              | Human  |
| Expression Host:      | HEK293T  |
| Expression cDNA       | >RC202434 protein sequence                               |
| Clone or AA Sequence: | Red=Cloning site Green=Tags(s)                           |

MKYILVTGGVISGIGKGIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFLDDGGGEVDLD  
LGNYERFLDIRLTKDNNLTTGKIYQYVINKERKGDYLGKTVQVPHITDAIQEWMRQALIPVDEDGLEP  
QVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENFNCNIHVS LVPQPSSTGEQTKPTQNSVRELRLGLS  
PDLVVCRCNSPLDTSVKEKISMFCHEPEQVICVHDVSSIYRVPLLEE QGVVDYFLRRDLPIERQPRK  
MLMKWKEMADRYDRLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEE  
PVRYHEAWQKLC SAHGVLVPGGFGVRGTEGKIQAIAWARNQKKPFLGVCLGMQLAVVEFSRNVLGWQDAN  
STEFDPTTSHPVVDMPEHNPGQMGGTMLRGLKRRTLFQTKNSVMRKLYGDADYLEERHRHRFEVNPVWKK  
CLEEQGLK FVGQDVEGERMEIVELEDHPFFVGVQYHPEFLSRPIKSPPPYFGLLLASVGRLSHYLQKGC  
LSPRDTYS DRIGSSSPDSEITELKFPSINH D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

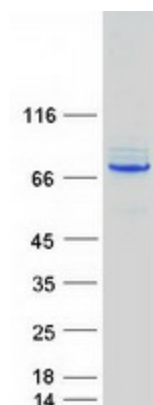
|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 66.5 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 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>           | <a href="#">NP_001896</a>   |
| <b>Locus ID:</b>         | 1503  |
| <b>UniProt ID:</b>       | <a href="#">P17812</a>  |
| <b>RefSeq Size:</b>      | 3248  |
| <b>Cytogenetics:</b>     | 1p34.2  |
| <b>RefSeq ORF:</b>       | 1773  |
| <b>Synonyms:</b>         | CTPS; GATD5; GATD5A; IMD24  |
| <b>Summary:</b>          | This gene encodes an enzyme responsible for the catalytic conversion of UTP (uridine triphosphate) to CTP (cytidine triphosphate). This reaction is an important step in the biosynthesis of phospholipids and nucleic acids. Activity of this protein is important in the immune system, and loss of function of this gene has been associated with immunodeficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014] |
| <b>Protein Pathways:</b> | Metabolic pathways, Pyrimidine metabolism   |

### Product images:



Coomassie blue staining of purified CTPS1 protein (Cat# [TP302434]). The protein was produced from HEK293T cells transfected with CTPS1 cDNA clone (Cat# [RC202434]) using MegaTran 2.0 (Cat# [TT210002]).