

## Product datasheet for TP313151M

### CTNS (NM\_004937) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Homo sapiens cystinosis, nephropathic (CTNS), transcript variant 2, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC213151 representing NM_004937 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MIRNWLTI FILFPLKLVKCESSVSLTVPPVVKLENGSSTNVSLTLRPPLNATLVITFEITFRSKNITIL ELPDEVVWPPGVTNSSFQVTSQNVGQLTVYLHGNHNSNQTGPRIRFLVIRSSAISIIINQVIGWIYFVAWSI SFYPQVIMNWRKSVIGLSFDFVALNLTGFVAYSVFNIGLLWVPYIKEQFLKYPNGVNPVNSNDVFFSL HAVVLTIIIVQCCLYERGGQRVSWPAIGFLVLAWLFAFVTMIVAAVGVITWLQFLFCFSYIKLAVTLVK YFPQAYMNFYYKSTEGWSIGNVLLDFTGGSFLLQMFLQSYNNDQWTLIFGDPTKFGGLGVFSIVFDWVFF IQHFCLYRKRPGYDQLN
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	41.6 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<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><a href="#">NP_004928</a></u>



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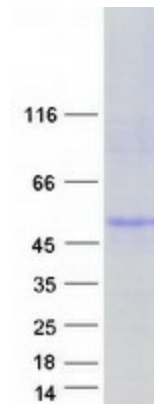
Locus ID: 1497  
UniProt ID: [O60931](#), [A0A0S2Z3K3](#)  
RefSeq Size: 2611  
Cytogenetics: 17p13.2  
RefSeq ORF: 1101  
Synonyms: CTNS-LSB; PQLC4; SLC66A4

**Summary:** This gene encodes a seven-transmembrane domain protein that functions to transport cystine out of lysosomes. Its activity is driven by the H<sup>+</sup> electrochemical gradient of the lysosomal membrane. Mutations in this gene cause cystinosis, a lysosomal storage disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2009]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Lysosome

### Product images:



Coomassie blue staining of purified CTNS protein (Cat# [TP313151]). The protein was produced from HEK293T cells transfected with CTNS cDNA clone (Cat# [RC213151]) using MegaTran 2.0 (Cat# [TT210002]).