

## Product datasheet for PH313151

### CTNS (NM\_004937) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CTNS MS Standard C13 and N15-labeled recombinant protein (NP_004928)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213151
Predicted MW:	41.6 kDa
Protein Sequence:	>RC213151 representing NM_004937 Red=Cloning site Green=Tags(s)
	MIRNWLTIIFILFPLKLVKCESSVSLTVPPVVKLENGSSTNVSLTLRPPLNATLVITFEITFRSKNITIL ELPDEVVPPPGVTNSSFQVTSQNVGQLTVYLHGNHNSQTGPRIRFLVIRSSAISIIINQVIGWIYFVAWSI SFYPQVIMNRRKSVIGLSFDFVALNLTFVAVSVFNIGLLWVPYIKEQFLLKYPNGVNPVNSNDVFFSL HAVVLTLLIIIVQCCLYERGGQRVSWPAIGFLVLAWLFAFVTMIVAAGVITWLQFLFCFSYIKLAVTLVK YFPQAYMNFYYKSTEGWSIGNVLLDFTGGSFLLQMFLQSYNNDQWTLIFGDPTKFGLVFSIVFDVFFF IQHFCLYRKRPGYDQLN
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004928</a>
RefSeq Size:	2611
RefSeq ORF:	1101
Synonyms:	CTNS-LSB; PQLC4; SLC66A4
Locus ID:	1497



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UniProt ID: [O60931](#), [A0A0S2Z3K3](#)

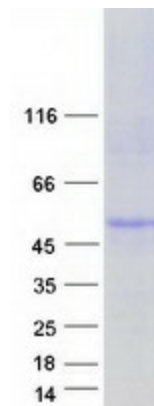
Cytogenetics: 17p13.2

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]).