

## Product datasheet for PH313339

### CTBP2 (NM\_001083914) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CTBP2 MS Standard C13 and N15-labeled recombinant protein (NP_001077383)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213339
Predicted MW:	48.8 kDa
Protein Sequence:	>RC213339 representing NM_001083914 <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)

MALVDKHKVKRQRLDRICEGIRPQIMNGPLHPRPLVALLDGRDCTVEMPILKDLATVAFCDQSTQEIHE  
 KVLNEAVGAMMYHTITLTREDLEKFKALRVIVRIGSGYDNVDIKAAGELGIAVCNIPSAAVEETADSTIC  
 HILNLYRRNTWLYQALREGTRVQSVEQIREVASGAARIRGETLGLIGFGRTGQAVAVRAKAFGFSVIFYD  
 PYLQDGIERSLGVQRVYTLQDLLYQSDCVSLHCNLEHNHHLINDFTIKQMRQGAFLVNAARGGLVDEKA  
 LAQALKEGRIRGAALDVHESEPFSAQGPKDAPNLICTPHTAWYSEQASLEMREAAATEIRRAITGRIP  
 ESLRNCVNKEFFVTSAPWSVIDQQAHPPELNGATYRPPGIVGVAPGGLPAAMEGIIPGGIPVTHNLPTV  
 AHPSQAPSPNQPTKHGDNREHPNEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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:	<u><a href="#">NP_001077383</a></u>
RefSeq Size:	3441
RefSeq ORF:	1335
Locus ID:	1488


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**UniProt ID:** P56545

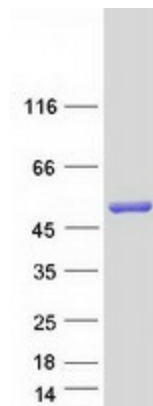
**Cytogenetics:** 10q26.13

**Summary:** This gene produces alternative transcripts encoding two distinct proteins. One protein is a transcriptional repressor, while the other isoform is a major component of specialized synapses known as synaptic ribbons. Both proteins contain a NAD<sup>+</sup> binding domain similar to NAD<sup>+</sup>-dependent 2-hydroxyacid dehydrogenases. A portion of the 3' untranslated region was used to map this gene to chromosome 21q21.3; however, it was noted that similar loci elsewhere in the genome are likely. Blast analysis shows that this gene is present on chromosome 10. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]

**Protein Families:** Stem cell - Pluripotency, Stem cell relevant signaling - Wnt Signaling pathway

**Protein Pathways:** Chronic myeloid leukemia, Notch signaling pathway, Pathways in cancer, Wnt signaling pathway

### Product images:



Coomassie blue staining of purified CTBP2 protein (Cat# [TP313339]). The protein was produced from HEK293T cells transfected with CTBP2 cDNA clone (Cat# [RC213339]) using MegaTran 2.0 (Cat# [TT210002]).