

OriGene Technologies, Inc.

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Product datasheet for PH301706

emopamil binding protein (EBP) (NM_006579) Human Mass Spec Standard

Product data:

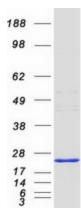
Description:EBP MS Standard C13 and N15-labeled recombinant protein (NP_006570)Species:HumanAppension Host:HEK293Appension cDNACtionRC01706Predicted MW:CA NDPredicted MW:SRC01706 protein sequence Redictioning site Green-Tags(s)Protein Sequence:RC01700 protein sequence Redictioning site Green-Tags(s)TINAPCHPYWPQHLRLDNFVPNDRPTWHLAGLFSVTGVLVTTWLLSGRAAVVPLGTWRRLSLCWFA KOEFTHLVEEWFLVYEDLGOQAFLSQUWKEYAKGDSW1LGDWFTVCMETTTAGLWRPLSLWVLAF LTANGTURATKASKKMTag:CMy/DXFareCMy/DXFareSold statemined by SDS-PAGE and Coomassie blue stainingForgenerSold statem	Product Type:	Mass Spec Standards
Fxpression Host:HEK293Fxpression CDNA CloopRC201706Predicted MW:6.4 kDaProtein Sequence:RC201706 protein sequence RedeCloning site Green-Tags(s)Protein Sequence:RC201706 protein sequence RedeCloning site Green-Tags(s)WTINAGPLHPYMPQHLRLDNFYDNDRPTMHILAGLFSYTGVLYTTWLLSGRAAVPLGTWRRLSLEWFAR LUNEVFDLEDGOAFLGDWKEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGOAFLGDWKEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDWKEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDGWKEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDGWKEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDGWKEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDGWKEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDGWKEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDKWEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDKWEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDKWEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDKWEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDKWEYXGDSGRYTLGDNFTVGHTTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDKWEYXGDSGRYTLGDNFTVGHTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDKWEYXGDSGRYTLGDNFTVGHTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDKGTGDGUKESTAGGGGNGGRYTLGDNFTVGHTACLWGPLSLWVYAF LUNEVFDLEDGAAFLGDGGUKESTAGGGGNGGUKESTAGGGGGNGGUKESTAGGGGGGGUKESTAGGGGGGGUKESTAGGGGGGGUKESTAGGGGGGGUKESTAGGGGGGGUKESTAGGGGGGUKESTAGGGGGGGUKESTAGGGGGGUKESTAGGGGGGUKESTAGGGGGGGUKESTAGGGGGGGUKESTAGGGGGGGGGUGGGUGGGGGGGGGGGGGGGGGGGGGGG	Description:	EBP MS Standard C13 and N15-labeled recombinant protein (NP_006570)
Argession cDNA CloneRC201706Predicted MW:6.4 kDaProtein Sequence:RC201706 protein sequence Red=Cloning site Green=Tags(s)MTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVVTWLLSGRAAVVPLGTWRRLSLCWFA VCGFTHLVIEGWFU.YYEDLLGOQAFLSQLWKEVAKODSRYILGDNFTVCMETITACLWGPLSLWVIAF LRQWPLFTLQUVSQGYYGDU/YELTEHRDGPQGELGHPLYFWFYFVFNNALWLVLPGVLVLDAVKH LTHAQSTLDAXATKAKSKKNTag:C-Myc/DDKFarrPLEQKLISEEDLAANDILDYKDDDDKVFarrPLEQKLISEEDLAANDILDYKDDDDKVGoncentration:9.005 µg/µL as determined by SDS-PAGE and Coomassie blue stainingGoncentration:0.05 µg/µL as determined by microplate BCA methodBuffer:0.05 µg/µL as determined by microplate BCA methodBuffer:0.05 µg/µL as determined by microplate BCA methodStorage:Gine at -80°C. Avoid repeated freeze-thaw cycles.Stability:Stabe for 3 months from receipt of products under proper storage and handling conditions.RefSeq ORF:690RefSeq ORF:690Storage:01912; CHO2; CPX; CPXD; MENDLocus ID:10682	Species:	Human
or AA Sequence:Predicted MW:6.4 kDaProtein Sequence: Red=Cloning site Green=Tags(s)MTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVVTTWLLSGRAAVVPLGTWRLSLCWFA VCGFTHLVIEGUFVLYYEDLLGOQAFLSQLWKEVAKGDSRYILGDNFTVCMETITACLWCPLSLWVIAF LRQWPLFTILQUVSQGIYGDVLYLFEHRDCPQHGELGHPLYFWFYFVFNNALWLVLPGVLVLDAVKH LRQWPLFTILQUVSQGIYGDVLYLFEHRDCPQHGELGHPLYFWFYFVFNNALWLVLPGVLVLDAVKH LRQWPLATDLXKAKSKKNTag:C-Myc/DDKTag:C-Myc/DDKPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:>0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:05 nM Tris-HCI, 100 nM glycine, pH 7.3Storage:Store at -80°C. Avoid repeated freeze-thaw cycles.Stability:0.406570RefSeq Size:1191RefSeq ORF:690Synonyms:CDPX2; CHO2; CPX; CPXD; MENDLocus ID:10682	Expression Host:	HEK293
Protein Sequence:Rc201706 protein sequence Red=Cloning site Green=Tags(s)MTTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVTTWLLSGRAAVVPLGTWRRLSLCWFA VCGFTHLVIEGWFVLYYEDLLGDQAFLSQLWKEYAKGDSRYILGDNFTVCMETITACLWGPLSLWVVIAF LRQMPLRFILQLVVSVQQTYGDVLYFLTEHRDGPQHGELGHPLYFWFYFVFNNALWLVLPGVLVLDAVKH LTHAQSTLDAKATKAKSKNTag:<	•	RC201706
Red=Cloning site Green=Tags(s)MTTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVVTTWLLSGRAVVPLGTWRRLSLCWFA VCGFIHLVIEGWFVLYYEDLLGDQAFLSQLWKEYAKGDSRYILGDNFTVCMETITACLWGPLSLWVVIAF LRQHPLRFILQLVVSVGQIYGDVLYFLTEHRDGFQHGELGHPLYFWFYFVFNNALWLVLPGVLVLDAVKH LTHAQSTLDAKATKAKSKKNTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3Storage: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:NP 006570RefSeq ORF:690Synonyms:CDPX2; CHO2; CPX; CPXD; MENDLocus ID:10682	Predicted MW:	26.4 kDa
VCGFIHLVIEGWF/LYYEDLLGDQAFLSQLWKEYAKGDSRYILGDNFTVCMETITACLWGPLSLWVVIAF LRQHPLRFILQL/VSVGQIYODVLYFLTEHRDGFQHGELGHPLYFWFYFVFMNALWLVLPGVLVLDAVKH LTHAQSTLDAKATKAKSKKNTag:C-Myc/DDKTag:C-Myc/DDKPurity:> 80% as determined by SDS-PAGE and Coomassie blue stainingConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U-13C6, 15N4]-L-Arginine and [U-13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3Storage: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 Size:1191RefSeq ORF:690Synonyms:CDPX2; CHO2; CPX; CPXD; MENDLocus ID:10682	Protein Sequence:	
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Purity:> 80% as determined by SDS-PAGE and Coomassie blue stainingPurity:> 80% as determined by microplate BCA methodConcentration:> 0.05 µg/µL as determined by microplate BCA methodLabeling Method:Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-LysineBuffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3Storage: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:NP 006570RefSeq ORF:690Synonyms:CDPX2; CPX2; CPXD; MENDLocus ID:10682		TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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Buffer:25 mM Tris-HCl, 100 mM glycine, pH 7.3Storage: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:NP 006570RefSeq Size:1191RefSeq ORF:690Synonyms:CDPX2; CHO2; CPX2; MENDLocus ID:10682	Concentration:	>0.05 μg/μL as determined by microplate BCA method
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:NP 006570RefSeq Size:1191RefSeq ORF:690Synonyms:CDPX2; CHO2; CPX; CPXD; MENDLocus ID:10682	Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
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RefSeq: NP 006570 RefSeq Size: 1191 RefSeq ORF: 690 Synonyms: CDPX2; CHO2; CPX; CPXD; MEND Locus ID: 10682	Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
RefSeq Size: 1191 RefSeq ORF: 690 Synonyms: CDPX2; CHO2; CPX; CPXD; MEND Locus ID: 10682	Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq ORF: 690 Synonyms: CDPX2; CHO2; CPX; CPXD; MEND Locus ID: 10682	RefSeq:	<u>NP 006570</u>
Synonyms: CDPX2; CHO2; CPX; CPXD; MEND Locus ID: 10682	RefSeq Size:	1191
Locus ID: 10682	RefSeq ORF:	690
	Synonyms:	CDPX2; CHO2; CPX; CPXD; MEND
UniProt ID: <u>Q15125</u> , <u>A0A024QYX0</u>	Locus ID:	10682
	UniProt ID:	<u>Q15125, A0A024QYX0</u>



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	emopamil binding protein (EBP) (NM_006579) Human Mass Spec Standard – PH301706
Cytogenetics:	Xp11.23
Summary:	The protein encoded by this gene is an integral membrane protein of the endoplasmic reticulum. It is a high affinity binding protein for the antiischemic phenylalkylamine Ca2+ antagonist [3H]emopamil and the photoaffinity label [3H]azidopamil. It is similar to sigma receptors and may be a member of a superfamily of high affinity drug-binding proteins in the endoplasmic reticulum of different tissues. This protein shares structural features with bacterial and eukaryontic drug transporting proteins. It has four putative transmembrane segments and contains two conserved glutamate residues which may be involved in the transport of cationic amphiphilics. Another prominent feature of this protein is its high content of aromatic amino acid residues (>23%) in its transmembrane segments. These aromatic amino acid residues have been suggested to be involved in the drug transport by the P-glycoprotein. Mutations in this gene cause Chondrodysplasia punctata 2 (CDPX2; also known as Conradi-Hunermann syndrome). [provided by RefSeq, Jul 2008]
Protein Families	: Druggable Genome, Transmembrane
Protein Pathway	s: Metabolic pathways, Steroid biosynthesis

Product images:



Coomassie blue staining of purified EBP protein (Cat# [TP301706]). The protein was produced from HEK293T cells transfected with EBP cDNA clone (Cat# [RC201706]) using MegaTran 2.0 (Cat# [TT210002]).

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