

## Product datasheet for PH301754

### MPP1 (NM\_002436) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	MPP1 MS Standard C13 and N15-labeled recombinant protein (NP_002427)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201754
Predicted MW:	52.3 kDa
Protein Sequence:	>RC201754 protein sequence Red=Cloning site Green=Tags(s)

MTLKASEGESGGSMHTALSDLYLEHLLQKRSRPEAVSHPLNTVTEDMYTNGSPAPGSPAQVKQGEVRKVR  
LIQFEKVTEEPMGITLKLNEKQSCTVARILHGGMIHRQGSLSHVGDEILEINGTNTVNHSDQLQKAMKET  
KGMISLKVIPNQSRPALQFMRAQFDYDPKKNLIPCKEAGLK FATGDIIQIINKDDSNWWQGRVEGS  
SKESAGLIPSPELQEWVAVASMAQSAPSEAPSCSPFGKKKKYYKDKYLAKHSSIFDQLDVVSYEEVRLPAF  
KRKTLVLIGASGVGRSHIKNALLSQNPEKFVYVPYTRPPRKSEEDGKEYHFISTEEMTRNISANEFLE  
FGSYQGNMFGTKFETVHQIHKQNKIAILDIEPQTLKIVRTAELSPFIVFIAPTDQGTQTEALQQLQKQDSE  
AIRSQYAHYFDLSLVNNGVDETLKKLQEAFDQACSSPQWVPSWVY

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:	<a href="#">NP_002427</a>
RefSeq Size:	2067
RefSeq ORF:	1398
Synonyms:	AAG12; DXS552E; EMP55; MRG1; PEMP



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Locus ID: 4354

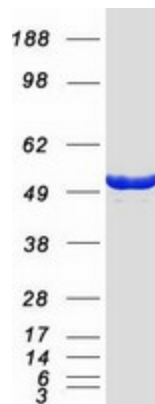
UniProt ID: [Q00013](#), [B4DZV5](#)

Cytogenetics: Xq28

**Summary:** This gene encodes the prototype of the membrane-associated guanylate kinase (MAGUK) family proteins. MAGUKs interact with the cytoskeleton and regulate cell proliferation, signaling pathways, and intercellular junctions. The encoded protein is an extensively palmitoylated membrane phosphoprotein containing a PDZ domain, a Src homology 3 (SH3) motif, and a guanylate kinase domain. This gene product interacts with various cytoskeletal proteins and cell junctional proteins in different tissue and cell types, and may be involved in the regulation of cell shape, hair cell development, neural patterning of the retina, and apico-basal polarity and tumor suppression pathways in non-erythroid cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified MPP1 protein (Cat# [TP301754]). The protein was produced from HEK293T cells transfected with MPP1 cDNA clone (Cat# [RC201754]) using MegaTran 2.0 (Cat# [TT210002]).