

## Product datasheet for PH301277

### M6PR (NM\_002355) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	M6PR MS Standard C13 and N15-labeled recombinant protein (NP_002346)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201277
Predicted MW:	31 kDa
Protein Sequence:	>RC201277 protein sequence Red=Cloning site Green=Tags(s)  MFPFYSCWRTGLLLLLLAVAVRESWQTEEKTCDLVGEKGKESEKELALVKRLKPLFNKSFESTVGGSDT YIYIFRVCREAGNHTSGAGLVQINKSNGKETVVGRLNETHIFNGSNWIMLIYKGGDEYDNHCGKEQRRAV VMISCNRH TLADNFPVSEERGVQDCFYLFEMDSSLACSP EISHLSVGSILLVTFASLVAVYVVGDFLY QRLVVGAKGMEQFPHLAFWQDLGNLVADGCVCRSKPRNVPAAYRGGVDDQLGEESEERDDHLLPM  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_002346</a>
RefSeq Size:	2583
RefSeq ORF:	831
Synonyms:	CD-M6PR; CD-MPR; MPR-46; MPR 46; MPR46; SMPR
Locus ID:	4074
UniProt ID:	<a href="#">P20645</a>



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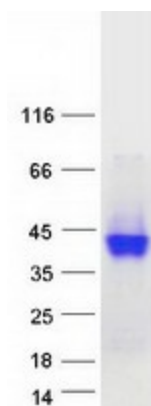
**Cytogenetics:** 12p13.31

**Summary:** This gene encodes a member of the P-type lectin family. P-type lectins play a critical role in lysosome function through the specific transport of mannose-6-phosphate-containing acid hydrolases from the Golgi complex to lysosomes. The encoded protein functions as a homodimer and requires divalent cations for ligand binding. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. A pseudogene of this gene is located on the long arm of chromosome X. [provided by RefSeq, May 2011]

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Lysosome

### Product images:



Coomassie blue staining of purified M6PR protein (Cat# [TP301277]). The protein was produced from HEK293T cells transfected with M6PR cDNA clone (Cat# [RC201277]) using MegaTran 2.0 (Cat# [TT210002]).