

## Product datasheet for PH308019

### VPS4B (NM\_004869) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	VPS4B MS Standard C13 and N15-labeled recombinant protein (NP_004860)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208019
Predicted MW:	49.3 kDa
Protein Sequence:	>RC208019 protein sequence Red=Cloning site Green=Tags(s)

MSSTSPNLQKAIDLASKAAQEDKAGNYEEALQLYQHAVQYFLHVVKYEAQGDKAKQSIRAKCTEYLDRAE  
KLKEYLKNKEKKAQKPVKEGQPSPADEKGNDSGEGESDDPEKKKLQNQLQGAIIVIERPNVKWSDVAGLE  
GAKEALKEAVILPIKPHLFTGKRTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSISSDLVSKWLG  
ESEKLVKNLFLARENKPSIIFIDEIDSLCGSRSENESEAARRIKTEFLVQMGGVGDNDGILVLGATNI  
PWVLDIAIRRRFEKRIYIPLPEPHARAAMFKLHLGTTQNSL TEADFRELGRKTDGYSADISIIVRDALM  
QPVRKVQSATHFKKVRGSPRADPNHLVDDLLTPCSPGDPGAIEMTWMDVPGDKLLEPVVMSDMLRSLSN  
TKPTVNEHDLLKLLKFTEDFGQEG

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>NP_004860</u>
RefSeq Size:	3396
RefSeq ORF:	1332
Synonyms:	MIG1; SKD1; SKD1B; VPS4-2



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Locus ID: 9525

UniProt ID: [O75351](#), [A0A024R2C5](#)

Cytogenetics: 18q21.33

**Summary:** The protein encoded by this gene is a member of the AAA protein family (ATPases associated with diverse cellular activities), and is the homolog of the yeast Vps4 protein. In humans, two paralogs of the yeast protein have been identified. The former share a high degree of aa sequence similarity with each other, and also with yeast Vps4 and mouse Skd1 proteins. Mouse Skd1 (suppressor of K<sup>+</sup> transport defect 1) has been shown to be a yeast Vps4 ortholog. Functional studies indicate that both human paralogs associate with the endosomal compartments, and are involved in intracellular protein trafficking, similar to Vps4 protein in yeast. The gene encoding this paralog has been mapped to chromosome 18; the gene for the other resides on chromosome 16. [provided by RefSeq, Jul 2008]

**Protein Families:** Transcription Factors

**Protein Pathways:** Endocytosis

### Product images:



Coomassie blue staining of purified VPS4B protein (Cat# [TP308019]). The protein was produced from HEK293T cells transfected with VPS4B cDNA clone (Cat# [RC208019]) using MegaTran 2.0 (Cat# [TT210002]).