

## Product datasheet for **TP308099L**

### VPS4A (NM\_013245) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human vacuolar protein sorting 4 homolog A ( <i>S. cerevisiae</i> ) (VPS4A), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC208099 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)
	<p>MTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCVQYLDRAEKL            KDYLRSKEKHGKKPVKENQSEGKGSDDSEGDNPEKKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALK            EAVILPIKFPHLFTGK RTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSVSSDLMSKWLGESEKLVK            NLFELARQHKPSIIFIDEVDSLCSGRNENESEAARRIKTEFLVQM QGVGNNDGTLVLGATNIPWVLDSA            IRRRF EKRIYIPLPEEAARAQMFRHLH LGSTPHNLTDANIHELARKTEGYSGADISIIVRDSL MQPVRKVQ            SATHFKVKVCGPSRTNPSMMIDDLTPCSPGDPGAMEMTWMDVPGDKLLEPVVCM S DMLRSLATTRPTVNA            DLLLVKKFSEDFGQES</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	48.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: NP\_037377

Locus ID: 27183

UniProt ID: Q9UN37

RefSeq Size: 2211

Cytogenetics: 16q22.1

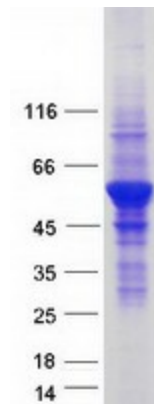
RefSeq ORF: 1311

Synonyms: CIMDAG; SKD1; SKD1A; SKD2; VPS4; VPS4-1

**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. The mouse Skd1 (suppressor of K<sup>+</sup> transport defect 1) has been shown to be really an 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 16; the gene for the other resides on chromosome 18. [provided by RefSeq, Jul 2008]

**Protein Pathways:** Endocytosis

## Product images:



Coomassie blue staining of purified VPS4A protein (Cat# [TP308099]). The protein was produced from HEK293T cells transfected with VPS4A cDNA clone (Cat# [RC208099]) using MegaTran 2.0 (Cat# [TT210002]).