

Product datasheet for TP518234

Vps41 (NM_172120) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse VPS41 HOPS complex subunit (Vps41), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR218234 representing NM_172120 Red =Cloning site Green =Tags(s)

MAEAAEQETESLEESTDESEEEEEEPKLYERLSNGVTEILQKDAASCMTVHDKFLALGTHYGKVYLLD
 VQGNITQKFDVSPVKINQISLDDSGEHMGVCSGDKLQVFGLYSGEEFHETFDCAPIKIIAVHPQFVRSSC
 KQFVTGGKKLLLFERTWMNRWKSSVLHEGEGNIRSVKWRGHLIAWANNMGVKVFDITSKQRISNVPRD
 DI
 SLRPDMYPCSLCWKDNVTLIIGWGTSIKICSVKERHASEMRDLPSRYVEIVSQFETEFYISGLAPLCDQL
 VVLSYVKEVSEKTEREYCARPRLDIIQPLPETCEEISSDALTVRGFQENECRDYHLEYSEGESLFYVWSP
 RDVWAKERDQDDHIDWLLEKKKYEEALMAAEISQRNIKRHKILDIGLAYVNHVERGEYDMAARKCQKI
 LGKNASLWEYEVYKFKEIGQLKAISPYLPRGDPVLKPLIYEMILHEFLES DYEGFATLIREWPGLDLYNNS
 VIVQAVRDHLKKDSQNKTLKTLAELYTDKNYGNAL E IYLT LRHKDV FQLIHKHNL FSSIKDKIVLLMD
 FDSEKAVDMLLDNEDKISIKKVVELED RPELQH VY LHKLFKR DHHKGQRYHEKQISLYAEYDRPNLLPF
 LRDSTHCPLKALEICQQRNFVEETVYLLSRMGNSRSALKMIMEELHDVDKAIEFAKEQDDGELWEDLIL
 YSIDKPPFITGLLNNIGTHVDPILLIHRKEGMEIPNLRDSL VKILQDYNLQILLREGCKKILVADSLSL
 LKKMHRTQMKGVLVDEENICESCLSPILPTDAAKPFSVWFHCRHMFHKECLPMPSPMNAPAYCNICSAK
 NRGPGSAILEMKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	99.1 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


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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 after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_742118
Locus ID:	218035
UniProt ID:	Q5KU39
RefSeq Size:	3212
Cytogenetics:	13 6.75 cM
RefSeq ORF:	2559
Synonyms:	AI317346; mVam2; Vam2
Summary:	Plays a role in vesicle-mediated protein trafficking to lysosomal compartments including the endocytic membrane transport and autophagic pathways. Believed to act in part as a core component of the putative HOPS endosomal tethering complex is proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The HOPS complex is proposed to be recruited to Rab7 on the late endosomal membrane and to regulate late endocytic, phagocytic and autophagic traffic towards lysosomes. Involved in homotypic vesicle fusions between late endosomes and in heterotypic fusions between late endosomes and lysosomes implicated in degradation of endocytosed cargo. Required for fusion of autophagosomes with lysosomes. May link the HOPS complex to endosomal Rab7 via its association with RILP and to lysosomal membranes via its association with ARL8B, suggesting that these interactions may bring the compartments to close proximity for fusion. Involved in the direct trans-Golgi network to late endosomes transport of lysosomal membrane proteins independently of HOPS. Involved in sorting to the regulated secretory pathway presumably implicating the AP-3 adaptor complex. May play a role in HOPS-independent function in the regulated secretory pathway (By similarity).[UniProtKB/Swiss-Prot Function]