

Recombinant Human VPS33B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. VPS33B-5610H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	VPS33B MS Standard C13 and N15-labeled recombinant protein (NP_061138) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene is a member of the Sec-1 domain family, and encodes the human ortholog of rat Vps33b which is homologous to the yeast class C Vps33 protein. The mammalian class C vacuolar protein sorting proteins are predominantly associated with late endosomes/lysosomes, and like their yeast counterparts, may mediate vesicle trafficking steps in the endosome/lysosome pathway. Mutations in this gene are associated with arthrogryposis-renal dysfunction-cholestasis syndrome. Alternative splicing results in multiple transcript variants.
Molecular Mass	70.6 kDa
AA Sequence	MAFPHRPDAPELPDFSMKRLARDQLIYLLEQLPGKKDLFIEADLMSPLDRIANVSILK QHEVDKLYKVENKPALSSNEQLCFLVRPRIKNMRYIASLVNADKLAGRTRKYKVIFSP QKFYACEMVLEEEGIYGDVSCDEWAFSLPLDLDLLSMELPEFFRDYFLEGDQRWI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NTVAQALHLLSTLYGPFPCYIGIRCAKMAYELWRNLEEEEDGETKGRRPEIGHIFL
 LDRDVFVTALCSQVVEGLVDDTFRIKCGSVDFGPEVTSSDKSLKVLLNAEDKVFN
 EIRNEHFSNVFGFLSQKARNLQAQYDRRRGMDIKQMKNFVSQELKGLKQEHRLLSL
 HIGACESIMKKTKQDFQELIKTEHALLEGFNIRESTSYIEEHIDRQVSPIESLRLMCLL
 SITENGLIPKDYRSLKTQYLQSYGPEHLLTFSNLRRAGLLTEQAPGDTLTAVESKVSK
 LVTDKAAGKITDAFSSLAKRSNFRAISKKLNLIIPRVDGEYDLKVPRDMAYVFSGAYVP
 LSCRIIEQVLERRSWQGLDEVVRLNCSDFAFDTMTKEDKASSESLRLILVVFLGGCT
 FSEISALRFLGREKGYRFILTTAVTNSARLMEAMSEVKATRTRPLEQKLISEEDLAA
 NDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name VPS33B VPS33B late endosome and lysosome associated [Homo sapiens (human)]

Official Symbol VPS33B

Synonyms VPS33B; vacuolar protein sorting 33 homolog B (yeast); vacuolar protein sorting 33B (yeast homolog); vacuolar protein sorting-associated protein 33B; FLJ14848; hVPS33B; vacuolar protein sorting 33B;

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Gene ID	26276
mRNA Refseq	NM_018668
Protein Refseq	NP_061138
MIM	608552
UniProt ID	Q9H267
SDS-PAGE	