

Vacuolar Protein Sorting Protein 29

Cat. No. CBCRY38 Lot. No. (See product label)

SPECIFICATION

Source	E.coli
Background	VPS29 belongs to a group of genes coding for vacuolar protein sorting (VPS) proteins that, when functionally impaired, disrupt the efficient delivery of vacuolar hydrolases. The protein encoded by this gene, Vps29, is a component of a large multimeric complex, termed the retromer complex, which is involved in retrograde transport of proteins from endosomes to the trans-Golgi network. Vps29 may be involved in the formation of the inner shell of the retromer coat for retrograde vesicles leaving the prevacuolar compartment.
Protein Classification	cytoplasmic protein
Structure Weight	20531.90 Da
Polymer	1
Molecule	Vacuolar Protein Sorting Protein 29
Chain Length	182 amino acids
PDB ID	1W24
MMDB ID	32322

 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

Method	X-Ray Diffraction
Resolution	2.10Å
Reference	Wang, D., Guo, M., Liang, Z., Fan, J., Zhu, Z., Zang, J., Zhu, Z., Li, X., Teng, M., Niu, L., Dong, Y., Liu, P. (2005) Crystal Structure of Human Vacuolar Protein Sorting Prote in 29 Reveals a Phosphodiesterase/Nuclease-Like Fold and Two Protein-Protein Interaction Sites. J.Biol.Chem. 280: 22962

GENE INFORMATION

Gene Name	VPS29
Synonyms	DC15; DC7; DKFZp564F0223; FLJ20492; PEP11; retromer protein; vacuolar protein sorting 29; vacuolar sorting protein VPS29/PEP11; x 007 protein; EC 3.1.3.3; hVPS29; vesicle protein sorting 29
UniProt ID	Q9UBQ0
Gene ID	51699
Chromosome Location	12q24
Function	zinc ion binding; hydrolase activity; metal ion binding

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