

Recombinant Full Length Human VAC14 Protein, C-Flag-tagged

Cat. No. VAC14-1514HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human VAC14 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a scaffold protein that is a component of the PIKfyve protein kinase complex. This complex is responsible for the synthesis of phosphatidylinositol 3,5-bisphosphate, an important component of cellular membranes, from phosphatidylinositol 3-phosphate. Mice lacking a functional copy of this gene exhibit severe neurodegeneration. Mutations in the human gene have been identified in patients with a childhood onset progressive neurological disorder characterized by impaired movement, dystonia, and striatal abnormalities.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	87.8 kDa
AA Sequence	MNPEKDFAPLTPNIVRALNDKLYEKRKVAALEIEKLVREFVAQNNTVQIKHVIQTLTSQ EFALSQHPSRK GGLIGLAACSIAGKDSGLYLKELIEPVLTCFNDADSRLRYACEA LYNIVKVARGAVLPHFNVLFDGSL KLAADPDPNVKSGSELLDRLLKDIVTESNKFIDL SFIPLLRERIYSNNQYARQFIISWILVLESVPDINL LDYLPEILDGLFQILGDNGKEIRKM CEVVLGEFLKEIKKNPSSVKFAEMANILVIHCQTDDLIQLTAMC WMREFIQLAGRV

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MLPYSSGILTAVLPCLAYDDRKKSKEVANVCNQSLMKLVTPEDDELDELPGQRQA
 E PTPDDALPKQEGTASGGPDGSCDSSFSSGISVFSTAATERAPVTLHLDGIVQVLN
 CHLSDTAIGMMTRIA VLKWLHYHLYIKTPRKMFRTDLSLFPILLQTLSDDESDEVILKDLE
 VLAEIASSPAGQTDDPGPLDGPDLQA SHSELQVPTPGRAGLLNTSGTKGLECSPST
 PTMNSYFYKFMINLLKRFSSERKLLEVRGPFIRQLCLLL NAENIFHSMADILLREEDL
 KFASTMVHALNTILLTSTELFQLRNQLKDLKTLESQNLFCCLYRSWCHNPV TTVSLC
 FLTQNYRHAYDLIQKFGDLEVTVDFLAEVDKLVQLIECPIFTYLRLQLLDVKNNPYLIK
 ALYGL LMLLPQSSAFQLLSHRLQCVNPPELLQTEDSLKAAPKSQKADSPSIDYAELL
 QHFEKVQNKHLEVRHQRS
 GRGDHLDRRVVLTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Full Length	Full L.

GENE INFORMATION

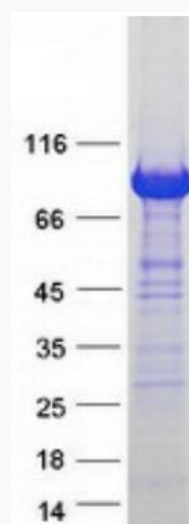
Gene Name	VAC14 VAC14 component of PIKFYVE complex [Homo sapiens (human)]
Official Symbol	VAC14

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Synonyms	TRX; TAX1BP2; ArPIKfyve
Gene ID	55697
mRNA Refseq	NM_018052.5
Protein Refseq	NP_060522.3
MIM	604632
UniProt ID	Q08AM6



Coomassie blue staining of purified VAC14 protein.