

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human VAC14 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	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.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	87.8 kDa
<b>AA Sequence</b>	MNPEKDFAPLTPNIVRALNDKLYEKRKVAALEIEKLVREFVAQNNTVQIKHVIQTLTSQ EFALSQHPHSRK GGLIGLAACSIALGKDSGLYLKELIEPVLTCFNDADSRLRYACEA LYNIVKVARGAVLPHFNVLFDGLS KLAADPDPNVKSGSELLDRLLKDIVTESNKFDLV SFIPLLRERIYSNNQYARQFIISWILVLESVPDINL LDYLPEILDGLFQILGDNGKEIRKM CEVVLGEFLKEIKKNPSSVKFAEMANILVIHCQTDDLIQLTAMC WMREFIQLAGRV

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MLPYSSGILTAVLPCLAYDDRKKSKEVANVCNQSLMKLVTPEDELDELPGQRQA  
 E PTPDDALPKQEGTASGGPDGSCDSSFSSGISVFSTAASTERAPVTLHLDGIVQVLN  
 CHLSDTAIGMMTRIA VLKWLHYHLYIKTPRKMFRTDLSFPILLQTLSDDESDEVILKDLE  
 VLAEIASSPAGQTDDPGPLDGPDLQA SHSELQVPTPGRAGLLNTSGTKGLECSPST  
 PTMNSYFYKFMINLLKRFSSERKLEVRGPFIRQLCLLL NAENIFHSMADILLREEDL  
 KFASTMVHALNTILLTSTELFQLRNQLKDLKTLESQNLFCCLYRSWCHNPV TTVSLC  
 FLTQNYRHAYDLIQKFGDLEVTVDFLAEVDKLVQLIECPIFTYLRLQLLDVKNNPYLIK  
 ALYGL LMLLPQSSAFQLLSHRLQCVPNPELLQTEDSLKAAPKSQKADSPSIDYAELL  
 QHFQKVNKHLEVRHQRS  
 GRGDHLDRRVVLRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

## GENE INFORMATION

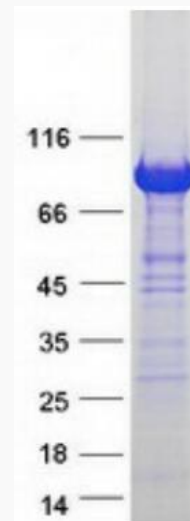
<b>Gene Name</b>	VAC14 VAC14 component of PIKFYVE complex [ Homo sapiens (human) ]
<b>Official Symbol</b>	VAC14

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



Coomassie blue staining of purified VAC14 protein.

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