

Product datasheet for **SC314683**

VAC14 (NM_018052) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VAC14 (NM_018052) Human Untagged Clone
Tag:	Tag Free
Symbol:	VAC14
Synonyms:	ArPIKfyve; TAX1BP2; TRX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC314683 representing NM_018052.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACCCCGAGAAGGATTTTCGCGCCGCTCACGCTAACATCGTGCAGCCCTCAATGACAAGCTGTAC
GAAAAGCGGAAGGTGGCAGCGCTGGAGATCGAGAAGCTGGTCCGGGAGTTCGTGGCCAGAACAAATACC
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GAGCTGATCGAGCCAGTGTGACCTGCTCAATGATGCAGACAGCAGGCTGCGCTACTATGCCTGCGAG
GCCCTCTACAACATCGTCAAGGTGGCCGGGGCGCTGTGCTGCCCACTTCAACGTGCTCTTTGACGGG
CTGAGCAAGCTGGCAGCCGACCCAGACCCCAATGTGAAAAGCGGATCTGAGCTCTAGACCGCCTTTTA
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TACTCAAACAACAGTATGCCCCGAGTTCATCATCTCCTGGATCCTGGTCTGGAGTCGGTGCCAGAC
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AACACCTCTGGTACCAAGGCTTAGAATGTTCTCCTTCAACTCCCACCATGAATTCTTACTTTTATAAG
TTCATGATCAACCTTCTCAAGAGATTGAGCAGCGAACGGAAGCTCCTGGAGGTGAGAGGCCCTTTCATC
ATCAGGCAGCTGTGCTCCTGCTGAATGCGGAGAACATCTTCACTCAATGGCAGACATCCTGCTGCGG
GAGGAGGACCTCAAGTTCGCCTCGACCATGGTCCACGCCCTCAACACCATCCTGCTGACCTCCACAGAG
CTTTCCAGCTAAGGAACAGCTGAAGGACCTGAAGACCTGGAGAGCCAGAACCTGTTCTGCTGCTG
TACCGCTCCTGGTGCCACAACCCAGTCAACACGGTGTCCCTCTGCTTCTCACCAGAACTACCGGCAC
GCCTATGACCTCATCCAGAAGTTTGGGGACCTGGAGGTCAACGTGGACTTCTCGCAGAGGTGGACAAG
CTGGTGACAGTGATTGAGTGCCCATCTTACATATCTGCGCCTGCAGCTGCTGGACGTGAAGAACAAC
CCCTACCTGATCAAGGCCCTCTACGGCTGCTCATGCTCCTGCCGAGAGCAGCGCTTCCAGCTGCTC
TCGACCCGGCTCCAGTGCGTGCCCAACCTGAGCTGCTGCAGACCGAAGACAGTCTAAAGGCAGCCCCC
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TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI
ACCN: NM_018052
Insert Size: 2349 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_018052.3</u>
RefSeq Size:	3107 bp
RefSeq ORF:	2349 bp
Locus ID:	55697
UniProt ID:	<u>Q08AM6</u>
Cytogenetics:	16q22.1-q22.2
MW:	88 kDa
Gene Summary:	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. [provided by RefSeq, May 2017] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).