

Product datasheet for **SC127193**

VPS33A (NM_022916) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS33A (NM_022916) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPS33A
Synonyms:	MPSPS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127193 sequence for NM_022916 edited (data generated by NextGen Sequencing)

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ATGGCGGCTCATCTGTCCTACGGCCGAGTGAACCTAAACGTGTTGCGCGAGGCGGTGCGT
CGCGAGCTGCGCGAGTTCCTGGACAAGTGCAGGAAAGCAAGGCAATAGTTTGGGATGAA
TACCTAACTGGACCCCTTGGCCTGATTGCACAGTATTTACTATTGAAGGAACATGAAGTG
GAAAAAATGTTACACTTAAAGGAAATCGTTTGCCGGCAGCTGATGTGAAGAATAAATTT
TTTTTTGTCAGACCCAGGCTAGAGTTGATGGATAAATCGCTGAAAACGTGCTCAGTGAA
GATAGACGAGGCCAACGAGAGATTTTCATATTCTGTTTGTGCCACGCCGTAGCCTGTTG
TGCGAACAGCGGTTGAAGGATCTGGGTGCTTGGGATCCTTTATTCACAGGGAGGAGTAC
AGCTTAGATCTCATTCCATTTCGATGGGGATCTCTTATCCATGGAATCAGAGGGTGCATTC
AAAGAGTGCTACCTGGAGGGTGACCAGACGAGCCTGTACCACGCAGCCAAGGGGCTGATG
ACCCTGCAAGCTCTGTATGGAACGATCCCCAGATCTTTGGGAAAGGAGAATGCGCTCGG
CAAGTGGCCAATATGATGATCAGGATGAAGAGAGAGTTTACAGGAAGCCAGAATTCATA
TTTCTGTTTTTGATAATCTCTTGTGCTTGATCGGAATGTGGATTTATTAACACCTCTT
GCCACTCAGCTGACATATGAAGGACTCATTGATGAAATTTATGGCATTGAGAACAGTTAT
GTGAAATTACCTCCAGAGAAATTTGCACCTAAGAAACAGGGCGATGGTGGTAAGGACCTC
CCCACGGAAGCAAGAAGCTGCAGCTGAATTCGACAGGAGCTCTATGCTGAGATCCGA
GATAAGAACTTCAACGCAGTTGGCTCTGTGCTCAGCAAGAAAGCAAGATCATCTCTGCA
GCATTCGAGGAAAGACACAATGCTAAGACCGTGGGGGAGATCAAGCAGTTTGTTCACAG
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CACTCGTTGATCAAGGTGTTAAGACTAGTTTGCCTCCAATCCGTGTGTAATAGTGGGCTC
AAACAAAAAGTTTTGGATTATTACAAAAGAGAGATTCTCCAGACATACGGCTATGAGCAC
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AACAAATACCAACTATACGAAAAACATTACGCCTCTGGATGGATGATGTTAATGAGCAA
AACCCACGGACATATCGTATGTGTACAGTGGGTATGCCCGCTCAGTGTGCGGCTGGCC
CAGCTGCTTCCCGGCTGGCTGGCGGAGCATCGAGGAGGTCTCCGCATCTCCAGGG
CCCCACTTTGAGGAGCGGCAGCCACTGCCACAGGACTGCAGAAGAAACGTCAACCGGGA
GAAAACCGAGTGACTCTGATATTTTCTTGGGGCGTAACTTTCGCTGAAATTGCTGCC
CTGCGATTTCTCTCCAGTTGGAAGATGGAGGTACAGAATATGTCATTGCCACCCTAA
CTAATGAATGGAACAGTTGGATAGAGGCTCTGATGAAAAACCTTTCTAG

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Clone variation with respect to NM_022916.4

5' Read Nucleotide Sequence: >OriGene 5' read for NM_022916 unedited

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TACGACTCACTATAGGGCGCCGGAATTCGGCACGAGGGGGTGGTGGAGCAAGATGGC
GGCTCATCTGTCTACGGCCGAGTGAACCTAAACGTGTTGCGCGAGGCGGTGCGTCGCGA
GCTGCGCGAGTTCCTGGACAAGTGCAGGAAAGCAAGGCAATAGTTTGGGATGAATACCT
AACTGGACCCCTTGGCCTGATTGCACAGTATTTACTATTGAAGGAACATGAAGTGAAAA
AATGTTACACTTAAAGGAAATCGTTTGCCGGCAGCTGATGTGAAGAATAAATTTTTTT
TGTGACAGCCAGGCTAGAGTTGATGGATAAATCGCTGAAAACGTGCTCAGTGAAGATAG
ACGAGGCCAACGAGAGATTTTCATATTCTGTTTGTGCCACGCCGTAGCCTGTTGTGCGA
ACAGCGGTTGAAGGATCTGGGTGCTTGGGATCCTTTATTCACAGGGAGGAGTACAGCTT
AGATCTCATTCCATTTCGATGGGGATCTCTTATCCATGGAATCAGAGGGTGCATTCAAAGA
GTGCTACCTGGAGGGTGACCAGACGAGCCTGTACCACGCAGCCAAGGGGCTGATGACCT
GNCAGCTCTGATGGAACGATCCCCAGATCTTTGGGAAAGGAGAAATGCGCTCGGCAGT
GGCCATATGATGATCAGGATGAAGAGAGAGTTACAGGAAGCCAGATTCATATTTCTGTT
TTTTGATATCTTGTGGCTGTCCGAAGGTGATTATTAACACCTCTGCCCTCAGCTGACTA
TGAAGACTCATGATGAAATATGCATCANNAACAGTATGTGAATTACCTCAGAGNATTTG
ACTAGAACGGCGATGGGTGGAAGGCCCTCCACGAGCAAGAACTGACTGATTGCGAGACT
CTTTTCTGATCGGTACTCTCCACCTTTGGTCTGGA

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Gene Summary:

This gene encodes a tethering protein and a core subunit of the homotypic fusion and protein sorting (HOPS) complex. The HOPS complex and a second endosomal tethering complex called the class C core vacuole/endosome tethering (CORVET) complex, perform diverse functions in endocytosis including membrane tethering, RabGTPase interaction, activation and proofreading of synaptic-soluble N-ethylmaleimide-sensitive factor attachment receptor (SNARE) assembly to drive membrane fusion, and endosome-to-cytoskeleton attachment. The HOPS complex controls endosome maturation as well as endosome traffic to the lysosome. This complex is essential for vacuolar fusion and is required for adaptor protein complex 3-dependent transport from the golgi to the vacuole. The encoded protein belongs to the Sec1/Munc18 (SM) family of SNARE-mediated membrane fusion regulators. Naturally occurring mutations in this gene are associated with a novel mucopolysaccharidosis-like disease. [provided by RefSeq, Apr 2017]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.