

Product datasheet for **SC324636**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_022916.4
 GGCAGGGGGTGGTGGAGCAAGATGGCGGCTCATCTGTCCTACGGCCGAGTGAACCTAAAC
 GTGTTGCGCGAGGCGGTGCGTCGCGAGCTGCGCGAGTTCTGGACAAGTGCAGGAAAGC
 AAGGCAATAGTTTGGGATGAATACCTAACTGGACCCTTTGGCCTGATTGCACAGTATTCA
 CTATTGAAGGAACATGAAGTGGAAAAATGTTCACTTAAAGGAAATCGTTTGCCGGCA
 GCTGATGTGAAGAATAAATTTTTTTGTCAGACCCAGGCTAGAGTTGATGGATAAATC
 GCTGAAAACGTGCTCAGTGAAGATAGACGAGGCCCAACGAGAGATTTTCATATTCTGTT
 GTGCCACGCCGTAGCCTGTTGTGCGAACAGCGGTTGAAGGATCTGGGTGCTTGGGATCC
 TTTATTACAGGGAGGAGTACAGCTTAGATCTCATTCCATTTCGATGGGGATCTCTTATCC
 ATGGAATCAGAGGGTGCATTCAAAGAGTGTACCTGGAGGGTGACCAGACGAGCCTGTAC
 CACGCAGCAAGGGGCTGATGACCCTGCAAGCTCTGTATGGAACGATCCCCAGATCTTT
 GGGAAAGGAGAATGCGCTCGCAAGTGGCCAATATGATGATCAGGATGAAGAGAGAGTTT
 ACAGGAAGCCAGAATCAATATTTCTGTTTTTGATAATCTCTTGTGCTTGATCGGAAT
 GTGGATTTATTAACACCTCTTGCCACTCAGCTGACATATGAAGGACTCATTGATGAAATT
 TATGGCATTTCAGAACAGTTATGTGAAATTACCTCCAGAGAAATTTGCACCTAAGAAACAG
 GGCATGTTGGTAAGGACCTCCCCACGGAAGCAAGAAGCTGCAGCTGAATTCGACAGAG
 GAGCTCTATGCTGAGATCCGAGATAAGAATTCACGCAGTTGGCTCTGTGCTCAGCAAG
 AAAGCAAAGATCATCTCTGCAGCATTTCGAGGAAAGACACAATGCTAAGACCGTGGGGGAG
 ATCAAGCAGTTTGTTCAGTTGCCCCACATGCAGGCAGCAAGGGGCTCGCTTGCAAAC
 CATACTCAATTCGAGAATTGATCAAAGATGCTACTACTTCTGAAGACTTTTTTGATAAA
 TTAACCGTGGAAACAGGAGTTTATGTCTGGAATAGACACTGATAAGGTCAACAATTACATT
 GAGGATTTGATCGCCAAAAGCACTCGTTGATCAAGGTGTTAAGACTAGTTTGCCTCCAA
 TCCGTGTGTAATAGTGGGCTCAAACAAAAGTTTTGGATTATTACAAAAGAGAGATTCTC
 CAGACATACGGCTATGAGCACATATTGACCTTACACAACCTGGAGAAGGCCGGCCTGCTG
 AAACCGCAGACGGGGGAGAAAACAATTACCAACTATACGGAACATTACGCCTCTGG
 ATGGATGATGTTAATGAGCAAAACCCACGGACATATCGTATGTGTACAGTGGGTATGCC
 CCGCTCAGTGTGCGGCTGGCCAGCTGCTTTCCCGCCTGGCTGGCGGAGCATCGAGGAG
 GTCCTCCGCATCCTCCAGGGCCCACTTTGAGGAGCGGCAGCCACTGCCACAGGACTG
 CAGAAGAAACGTCAACCGGGAGAAAACCGAGTACTCTGATATTTTTCTTGGGGCGTA
 ACCTTCGCTGAAATTGCTGCCCTGCGATTTCTCTCCAGTTGGAAGATGGAGGTACAGAA
 TATGTCATTGCCACCACTAACTAATGAATGGAACCAAGTTGGATAGAGGCTCTGATGGAA
 AAACCTTTCTAGGATGTTTCAGAGGAGACTTAACAAGTGTACTGCAGAATAAACTACTCT
 TTGAAGAAATTGCTGAAAGGAAGTAAAACCCCATAGAAGAAACATGGGAATACAGAAAT
 ATTCTGGGGTCAGCTTCTTAAATATACTACTGTTTACTGCTTTCTCCGCTCTTTTTGTA
 TTCCCTTTTTTTTTTCTTTGAGACGGAGTCTTGCTCTGTACCCAGACTAGAGTGCAG
 TGGCACGGTCTCACCTCACTGCAACCTCCACCTCCTAGGTTCAAGCAATTCTCCTGCCTC
 AGCCTCCTGAGTAGTGGGACTACAGGCATGCACCACACACCCGGCTAATTTTTGTATT
 TTTAGTAGCCATGGTGTTCACCATGTTGGCCAGGCTGGTCTCAAACCTCCTGACCTCAGG
 TGATCCACCTGCCTCGGCTCCACAGTGTGGATTACAGGCCTGAGCCACCGTGCCTG
 GCCCTAATCTGCTGAAGAAAGAAGAAATAGAAGAAAATCAACCTGAGTAAAAGCAGCACT
 GGTTTTGAAGTTTCTAAGCTCAGGGTCTTCATTAGAGACCTCTGGAAATACATTAAAGGAT
 GGTGGGGGTAGATAATCCATTACGCCAGACAAACGGGGCCAGCTCTTAAAATAAGAAAGC
 TGAGACTGAGGAGGTGAAACTGAAAATAAAAAGAGAAAGTTTCATCCTCTAAAAA
 AAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_022916

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:	<ol style="list-style-type: none"> 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_022916.4</u> , <u>NP_075067.2</u>
RefSeq Size:	2628 bp
RefSeq ORF:	1791 bp
Locus ID:	65082
UniProt ID:	<u>Q96AX1</u>
Cytogenetics:	12q24.31
Domains:	Sec1
Gene Summary:	<p>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]</p> <p>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.</p>