

Product datasheet for **SC128229**

VPS41 (NM_080631) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS41 (NM_080631) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPS41
Synonyms:	HVPS41; hVps41p; HVSP41
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_080631, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAAGCAGAGGAGCAGGAACTGGGTCCCTTGAAGAATCTACAGATGAGTCTGAGGAAGAAGAGA
GCGAAGAGGAACCAAGCTGAAGTATGAAAGGCTTCCAATGGGGTAACTGAAACTCTCAGAAGGATGC
AGCTAGTGCATGACAGTCCATGACAAGTTTTTGGCATTGGGCACACATTATGGCAAGGTTTATTTACTT
GATGTCCAGGGGAACATCACTCAGAAGTTTGATGTAGTGCAGGATTTGGACTGTATTCTGGAGAAGAAT
TTCACGAGACTTTTACTGTCCCATTAATAATTATTGCTGTGCACCCACATTTCTGAGATCCAGTTGCAA
GCAGTTTGTGACCGGAGGGAAGAAGCTGCTACTGTTTGAACGGTCTTGGATGAACAGATGGAAGTCTGCT
GTTCTGCATGAAGGGGAAGGGAACATAAGGAGTGTGAAGTGGAGAGGCCATCTGATTGCTGGGCCAATA
ATATGGGTGTGAAGATTTTTGACATCATCTCAAAGCAAAGAATCACCAATGTGCCCGGGATGATAAAG
TCTTCGCCGACAGATGTATCCCTGCAGCCTCTGCTGGAAGGACAATGTGACACTGATTATTGGCTGGGG
ACTTCTGTCAAGGTGTGCTCAGTGAAGGAACGGCATGCCAGTGAATGAGGGATTTGCCAAGTCGATATG
TTGAAATAGTGTCTCAGTTTGAAGTGAATTCTACATCAGTGGACTTGCACCTCTCTGTGATCAGCTTGT
TGTAATTCGTATGTAAGGAGATTTTCAGAAAAACGGAAGAGAATACTGTGCCAGGCCTAGACTGGAC
ATCATCCAGCCACTTTCTGAGACTTGTGAAGAGATCTCTTCTGATGCTTTGACAGTCAGAGGCTTTCAGG
AGAATGAATGTAGAGATTATCATTTAGAATACTCTGAAGGGGAATCACTTTTTTACATCGTGAGTCCGAG
AGATGTTGTAGTGGCCAAGGAACGAGACCAAGATGATCACATTGACTGGCTCCTTGAAAAGAAGAAATAT
GAAGAAGCATTGATGGCAGCTGAAATTAGCCAAAAAATATTAAGACATAAGATTCTGGATATTGGCT
TGGCATAATAAATCACCTGGTGGAGAGAGGAGACTATGACATAGCAGCAGCAAATGCCAGAAAATCT
TGGGAAAAATGCAGCACTCTGGGAATATGAAGTTTATAAATTTAAAGAAATTTGGACAGCTTAAGGCTATT
AGTCCTTATTTGCCAAGAGGTGATCCAGTTCTGAAACCACTCATCTATGAAATGATCTTACATGAATTTT
TGGAGAGTGATTATGAGGGTTTTGCCACATTTGATCCGAGAATGGCCTGGAGATCTGTATAATAATTCAGT
CATAGTTCAAGCAGTTCGGGATCAATTTGAAGAAAGATAGTCAGAACAAGACTTTACTTAAAAACCTGGCA
GAATTGTACACCTATGACAAGAATGATGCAATGCTCTGGAAATATACTTAACATTAAGACATAAAGACG
TTTTTCAGTTGATCCACAAGCATAATCTTTTCAGTTCTATCAAGGATAAAAATTTGTTTTATTAATGGATTT
TGATTCAGAGAAAGCTGTTGACATGCTTTTGGACAATGAAGATAAAAATTTCAATTAAGAGGAGTGGAA
GAATTGGAAGACAGACCAGAGCTACAGCATGTGATTTGCATAAGCTTTTCAAGAGAGACCACCATAAGG
GGCAGCGTTACCATGAAAAACAGATCAGTCTTTATGCTGAATATGATCGACCAAACCTTACTCCCTTTCT
CCGAGACAGTACCCATTGCCACTTGAAGAGGCTCTTGAGATCTGTCAACAGAGAAAATTTGTAGAAGAG
ACAGTTTATCTTCTGAGCCGAATGGGTAATAGCCGAAGTCCCTGAAGATGATTATGGAGGAATTACATG
ATGTTGATAAAGCAATCGAATTTGCCAAGGAGCAAGATGATGGAGAGCTGTGGGAAGATTTGATTTTATA
TTCCATTGACAAACCACCATTTATTACTGGCTTGTAAACAACATTGGCACACATGTTGACCCAATTCTA
CTGATTACCGTATTAAGGAAGGAATGGAGATCCCAATTTGAGAGATTCCTTGGTTAAAATTTCTGCAAG
ACTACAATTTGCAAAATCTGCTTCGTGAAGGCTGCAAGAAGATTCTCGTAGCTACTCTTTGCTTACT
GAAGAAAATGCACCGAACTCAAATGAAAGGTGTTCTTGTGATGAGGAGAACATCTGTGAGTCGTGCCTT
TCCCTATTCTTCCATCAGATGCAGCTAAGCCCTTCAGCGTGGTGGTCTTCCATTGCCGGCAGATGTTCC
ACAAGGAGTGCTGCCATGCCAGCATGAACTCTGCTGCACAGTTCTGCAACATCTGCAGTGCTAAGAA
CCGTGGACCAGGAAGTGAATTTGGAGATGAAAAATAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_080631 unedited GGTTAGATTGTATACACTCATATAGGGCGGCCGCGAATTCGCACGAGGGCGCCATGGCGG AAGCAGAGGAGCAGGAACTGGGTCCCTTGAAGAATCTACAGATGAGTCTGAGGAAGAAG AGAGCGAAGAGGAACCAAGCTGAAGTATGAAAGGCTTCCAATGGGGTAACTGAAATAC TTCAGAAGGATGCAGCTAGCTGCATGACAGTCCATGACAAGTTTTTGGCATTGGGCACAC ATTATGGCAAGGTTTATTTACTTGATGTCCAGGGGAACATCACTCAGAAGTTTGATGTAG TGCAGGTATTTGGACTGTATTCTGGAGAAGAATTCACGAGACTTTTACTGTCCAATTA AAATTATTGCTGTGCACCCACATTTTCGTGAGATCCAGTTGCAAGCAGTTTGTGACCGGAG GGAAGAAGCTGCTACTGTTTGAACGGTCTTGGATGAACAGATGGAAGTCTGCTGTTCTGC ATGAAGGGGAAGGGAACATAAGGAGTGTGAAGTGGAGAGGCCATCTGATTGCTTGGGCCA ATAATATGGGTGTGAAGATTTTTGACATCATCTCAAAGCAAAGAATCACCAATGTGCCCC GGGATGATATAAGTCTTCGCCAGACATGTATCCCTGCAGCCTCTGCTGGAANGGACATG TGACACTGATTATTGGCTGGGGACTTCTGTNCAGGTGTGCTCAGTAAAAGAAACGCATG CCAGTAAATGAGGGATTTGCCAAGTCGATATGTTGAAATAGTGTCTCAGTTTAAAAGT AATTCTACATCAGTGGACTTGCACCTNTCTGTGATCAGCTTTGTGGACTTTTCTATGGTA AAGGAGATTTNCAGAAAAACGGGAAGAGAATACTGTGGCAAGCCTAGACTGGACATCATC CAGCCCTT
Restriction Sites:	Please inquire
ACCN:	NM_080631
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).
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:	NM_080631.3 , NP_542198.2
RefSeq Size:	4819 bp
RefSeq ORF:	2490 bp
Locus ID:	27072
UniProt ID:	P49754
Cytogenetics:	7p14.1
Domains:	Clathrin
Protein Families:	Druggable Genome

Gene Summary:

Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene encodes the human ortholog of yeast Vps41 protein which is also conserved in Drosophila, tomato, and Arabidopsis. Expression studies in yeast and human indicate that this protein may be involved in the formation and fusion of transport vesicles from the Golgi. Several transcript variants encoding different isoforms have been described for this gene, however, the full-length nature of not all is known. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) is missing a sequence segment in the coding region compared to transcript variant 1. However, it maintains the same reading frame and encodes an isoform (2) which is 25 aa shorter than isoform 1.