

## Product datasheet for **SC111791**

### VPS41 (NM\_014396) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VPS41 (NM_014396) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPS41
Synonyms:	HVPS41; hVps41p; HVSP41
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111791 sequence for NM\_014396 edited (data generated by NextGen Sequencing)

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ATGGCGGAAGCAGAGGAGCAGGAAACTGGGTCCTTGAAGAATCTACAGATGAGTCTGAG
GAAGAAGAGAGCGAAGAGGAACCAAGCTGAAGTATGAAAGGCTTTCCAATGGGGTAACT
GAAATACTTCAGAAGGATGCAGCTAGCTGCATGACAGTCCATGACAAGTTTTTGGCATTG
GGCACACATTATGGCAAGTTTTATTACTTGATGTCCAGGGGAACATCACTCAGAAGTTT
GATGTAAGTCCTGTGAAGATAAATCAGATTAGCTTGGATGAAAGTGGAGAGCACATGGGT
GTGTGTTTCAGAGGATGGCAAGGTGCAGGTATTTGGACTGTATTCTGGAGAAGAATTCAC
GAGACTTTTGACTGTCCAATTAATAATTATTGCTGTGCACCCACATTTCTGAGATCCAGT
TGCAAGCAGTTTGTGACCGGAGGGAAGAAGCTGCTACTGTTTGAACGGTCTTGGATGAAC
AGATGGAAGTCTGCTGTTCTGCATGAAGGGGAAGGGAACATAAGGAGTGTGAAGTGGAGA
GGCCATCTGATTGCTTGGGCCAATAATATGGGTGTGAAGATTTTTGACATCATCTCAAAG
CAAAGAATCACC AATGTGCCCGGGATGATATAAGTCTTCGCCCAGACATGTATCCCTGC
AGCCTCTGCTGGAAGGACAATGTGACACTGATTATTGGCTGGGGACTTCTGTCAAGGTG
TGCTCAGTGAAGGAACGGCATGCCAGTGAATGAGGGATTTGCCAAGTCGATATGTTGAA
ATAGTGTCTCAGTTTGAAACTGAATTCTACATCAGTGGACTTGCACCTCTCTGTGATCAG
CTTGTTGTACTTTTCGTATGTAAGGAGATTTTCAGAAAAACGGAAAGAGAATACTGTGCC
AGGCCTAGACTGGACATCATCCAGCCACTTTCTGAGACTTGTGAAGAGATCTCTTCTGAT
GCTTTGACAGTCAGAGGCTTTCAGGAGAATGAATGTAGAGATTATCATTAGAACTACTCT
GAAGGGGAATCACTTTTTTACATCGTGAGTCCGAGAGATGTTGTAGTGGCCAAGGAACGA
GACCAAGATGATCACATTGACTGGCTCCTTGAAAAGAAGAATATGAAGAAGCATTGATG
GCAGCTGAAATAGCCAAAAAATATTAAGACATAAGATTCTGGATATTGGCTTGGCA
TATATAAATCACCTGGTGGAGAGAGACTATGACATAGCAGCACGCAAAATGCCAGAAA
ATTCTTGGGAAAAATGCAGCACTCTGGGAATATGAAGTTTATAAATTTAAGAAATTTGGA
CAGCTTAAGGCTATTAGTCCTTATTTGCCAAGAGGTGATCCAGTTCTGAAACCACTCATC
TATGAAATGATCTTACATGAATTTTTGGAGAGTATTATGAGGGTTTTGCCACATTGATC
CGAGAATGGCCTGGAGATCTGTATAATAATTCAGTCATAGTTCAAGCAGTTCGGGATCAT
TTGAAGAAAGATAGTCAGAACAAGACTTTACTTAAACCCTGGCAGAATTGTACACCTAT
GATAAGAACTATGGCAATGCTCTGGAAATATACTTAACATTAAGACATAAAGACGTTTTT
CAGTTGATCCACAAGCATAATCTTTTCAGTTCTATCAAGGATAAAATGTTTTATTAATG
GATTTTGATTGAGAGAAAGCTGTTGACATGCTTTTGGACAATGAAGATAAAATTTCAATT
AAAAGGTAGTGGAAAGATTGGAAGACAGACCAGAGCTACAGCATGTGTATTTGCATAAG
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GCTGAATATGATCGACCAAACTTACTTCCCTTTCTCCGAGACAGTACCCATTGCCCACTT
GAAAAGGCTCTTGAGATCTGTCAACAGAGAACTTTGTAGAAGAGACAGTTTATCTTCTG
AGCCGAATGGGTAAATAGCCGAAGTGCCTGAAGATGATTATGGAGGAATTACATGATGTT
GATAAAGCAATCGAATTTGCCAAGGAGCAAGATGATGGAGAGCTGTGGGAAGATTGATT
TTATATTCCATTGACAAACCACCATTTTACTGGCTTGTAAACAACATTGGCACACAT
GTTGACCCAATTCTACTGATTCACCGTATTAAGGAAGGAATGGAGATCCCAATTTGAGA
GATTCCTTGGTTAAAATTCTGCAAGACTACAATTTGCAAATTTCTGCTTCGTGAAGCTGC
AAGAAGATTCTCGTAGCTGACTCTTTGTCTTACTGAAGAAAATGCACCGAACTCAAATG
AAAGGTGTTCTTGTGATGAGGAGAACATCTGTGAGTCGTGCCTTTCCCTATTCTTCCA
TCAGATGCAGCTAAGCCCTTCAGCGTGGTGGTCTTCCATTGCCGGCACATGTTCCACAAG
GAGTGCCTGCCCATGCCCAGCATGAACTCTGCTGCACAGTTCTGCAACATCTGCAGTGT
AAGAACCCTGGACCAGGAAGTGAATTTTGGAGATGAAAAATAG
```

Clone variation with respect to NM\_014396.3  
378 c=>a;1563 c=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_014396 unedited  
 ATTCGGATTTGTAACCGACTTACTATAGGCGGCCGCGCAATTCGCACGAGGGCGCCATGG  
 CGGAAGCAGAGGAGCAGGAACTGGGTCCTTGAAGAATCTACAGATGAGTCTGAGGAAG  
 AAGAGAGCGAAGAGGAACCCAAGCTGAAGTATGAAAGGCTTCCAATGGGGTAACTGAAA  
 TACTTCAGAAGGATGCAGCTAGCTGCATGACATTCCATGACAAGTTTTTGGCATTGGGCA  
 CACATTATGGCAAGGTTTTATTTACTTGATGTCCAGGGGAACATCACTCAGAAGTTTGATG  
 TAAGTCCTGTGAAGATAAATCAGATTAGCTTGGATGAAAGTGGAGAGCACATGGGTGTGT  
 GTTCAGAGGATGGCAAGGTGCAGGTATTTGGACTGTATTCTGGAGAAGAATTTACAGAGA  
 CTTTTGACTGTCCAATTAATAATTATGCTGTGCACCCACATTTCTGAGATCCAGTTGCA  
 AGCAGTTTGTGACCGGAGGGAAGAAGCTGCTACTGTTTGAACGGTCTTGGATGAACAGAT  
 GGAAGTCTGCTGTTCTGCATGAAGGGGAAGGGAACATAAGGAGTGTGAAGTGGAGAGGCC  
 ATCTGATTGCTTGGGCAATAATATGGGTGTGAAGATTTTTGACATCATCTCANAGCAA  
 GAATCACCAATGTGCCCCGGATGATATAAGTCTTCGCCAGACATGTATCCCTGCAGCC  
 TCTGCTGGAANGACATGTGACTGATTATTGGCTGGGGACTTCTGTCAAGGTGTGCT  
 CAGTGAAGGAACCGCATGCCAGTAAAATGAGGGATTTGCCAAGTCGATATGTTGAAATAG  
 TGCTCAGTTTAAAATGAATTCTACATCAGTGGACTTGCACCTCTCTGTGATCAGCTTG  
 GTGACTTTT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_014396 unedited  
 CCGCAATCTAGAGTCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTTTTACAATGAAAAAAGCTAACATTTATTCAATCAACAATGCTGAGTGTCCCCATG  
 GCCAAATACTTTTTGACAGTCGTCACAGCACACAAAACATGTGATTAGTAAACATAATGG  
 GGCAGGACATCACCTGCTAATGTTATTTCCAGGGGTCATCAAATGAGGGACAATTTGTA  
 CAATGTTTCATTAATGCCTATTTAAAGGATAACCATAGTTGATGACCCAAAAAAGGCC  
 AAACCCAAAATGCAAAAATCGTACCCAGCAAAGCACGTGGAAACAACGTCCAAGTTGCAG  
 GTAACAGCTTGCAGGATAAACCACAGTTGGCGACCCTTTTCAGGCAGCTGGGAAAATTTCTCA  
 GTTGCCCATTTTATGTTTAAAGGTTTTACTAAGGGCTAAAAAATTCATTTCTAACTCCT  
 AAATTTATGTTTCCATTACTATATAAAGAAGGAGCCAAACAAATAAATAACAAAATATTC  
 ACTATGGACCCCAAAAATTTCAAGGCATGAAGAGAGCCCAAAATTTCTGTGAACTGCAAA  
 GAGAAAACCTTTAGTCCAGGAATAGATGAAGAAAATTGTTCTTGAGTATAATAAACAATAA  
 ACAAAATCCTTTAACACACGAGGTCAACAAAATGCTTTTGTGTTGCAAAAACAGTCTCA  
 AAAAGAGTGGGGACAAGGACACTGACAGGAGAAAATGAGCTATTTTTCACTCCAAATTGCA  
 CTTCTGGCCACGGTTTTAACCTGCAAAGTCGAAAATGTGCAAAAATTTGCTGGGCTG  
 CCAGCACTCTTGGGGCTGGCCGGCATGAAACCCCGCTAAGGCTTAAGTCTTGGGG  
 AAAATGGGGAAGCCCACTCAAAGTTTCTTTCAAAAACCACTATTTAGTGCAGCTTTCTC  
 CAAAGCAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_014396

**Insert Size:**

3410 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).

**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:** [NM\\_014396.2](#), [NP\\_055211.1](#)

**RefSeq Size:** 4914 bp

**RefSeq ORF:** 2565 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 (1) encodes the full-length isoform (1).