

Product datasheet for **SC112452**

VPS16 (NM_022575) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS16 (NM_022575) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPS16
Synonyms:	DYT30; hVPS16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC112452 sequence for NM_022575 edited (data generated by NextGen Sequencing)

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ATGGACTGCTACACGGCGAACTGGAACCCACTCGGGGACTCTGCCTTTTACCGGAAATAT
GAGCTGTACAGCATGGACTGGGACTGAAGGAGGAACTCAGGGATTGCCTGGTGGCTGCT
GCACCCATATGGGGGCCCATTCGACTGCTGAGGAACCCCTGGCGGAAGGAGAAAGCTGCT
AGTGTGAGGCCAGTGTCTGATATATACTCTGCTCCGGCATGCCTCTGGCCAGCCTGCTG
TGGAAGAGTGGACCCGTGGTGTCCCTGGGCTGGTCAGCTGAGGAGGAGCTGCTCTGTGTG
CAGGAAGATGGTGTACTGGTTTATGGGCTTCATGGTGACTCCGGAGACACTTCAGC
ATGGGCAATGAAGTGCTCCAGAACC GGTTCTGGATGCCCGGATCTTTCACACTGAGTTT
GGTTCCGGAGTGGCCATCCTCACAGGGGCCACCGCTTACCCTCAGTGCCAATGTGGGT
GACCTCAAACCTCCGCCGATGCCAGAGGTGCCAGGTCTGCAAAGTGCACCCCTCTGCTGG
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AGCTTCTACAGATGGCTGTCTCTTACCTACCGACACCTGGCACTCTTACAGACACA
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CAGCAGTGCATTGAGGCTGCAGGACATGAGCACCAGCCAGACATGCAGAAGAGTCTGCTC
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TATGAGCCACGCTCAGGGGAGCAGTACCCTTCTCTAAAGATGAAGAGGAGCAAACCTG
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ACAGATGGGGCCACAGCTGACAAGATTCAACGGGCCAGGGCACAAGCCAGAAGAAGTGA

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Clone variation with respect to NM_022575.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022575 unedited
 TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGACCAGCCATGGACTGCTA
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 CATGGACTGGGACCTGAAGGAGGAACTCAGGGATTGCCTGGTGGCTGCTGCACCCATGG
 GGGCCCCATTGCACTGCTGAGGAACCCCTGGCGGAAGGAGAAAGCTGCTAGTGTGAGGCC
 AGTGCTGATATATACTCTGCTTCCGGCATGCCTCTGGCCAGCCTGCTGTGGAAGAGTGG
 ACCCGTGGTGTCCCTGGGCTGGTCAGCTGAGGAGGAGCTGCTCTGTGTGCAGGAAGATGG
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 GGCCATCCTCACAGGGGCCACCGCTTACCCTCAGTGCCAATGTGGTGACCTCAAACCT
 CCGCCGGATGCCAGAGGTGCCAGGTCTGCANAGTGACCCCTCCTGCTGGACTGTGCTGTG
 CCANGACCGAGTGGCACACATTCTTCTGGCTGTGGGGCCTGACCTTTACCTCTTGGACCA
 TGCAGCCTGCTCCGAGTGACGCCCCCTGGCTGGCCCCAGGAGTAAGCAGCTTCTCTACA
 GATGGCTGTCTNCTTACCTACCGACACCTGNCACCTTTCACAGACACAGGCTACATCTG
 GATGGGGACAGCATCACTCAAGGAGAAGCTATGTGAGTTCAACTGCAACATCCGGGCACC
 TTCCAAGCAGATGGTCTGGTGCACCCGTTCTCGTANCAAGGAAAAGGCCCGTGGTGGTTG
 CCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022575 unedited
 TTATTNTGCTACCGCGGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTAAGTGTT
 CCAACTTTATTTAAAACCAGACAGCCCTGCTACCATGCCCCGCTCCTCAGCATTGCTCT
 AGGGGAGGAGCTGGATGAACTATGGCCCTTCTGCCAAGCCAGGTCTAGGGGAGGAACC
 CCTTGCTTGAGATGTACAGGATGGACTCCTCACTTCTTCTGGGCTGTGCCCCGGCCCGT
 TGAATCTTGTCAGCTGTGGCCCCATCTGTGGCTCCCGTGCAAGTGGGCCAATACGAGGCTC
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 AGAAGCAAAGCCTTGACCTTCTGCTCGGGACCCACGCGGGAAGCATACTTCTTGGCTTCG
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 TTGCTCTTGGAAAACCTTCTAGCTCTTCCCCATCTTCCAATCTGCCAGGGCAGTCAGC
 TTCAGCCACCAGAGCCTTGTGTCAGGGATGCGGAAGTCCCGTGCCAGCTGCTCTGCACGC
 TTGTTGTGACCGCCAAGAATGAGGGTGGTAAGTGTGTCATGTAGAGACAGTCTATGAAC
 TGGCCCCCAGCTCGTCTTCTAAGCGCCGCTGCAACCGTAGGAGCCGATTTGATCCTCT
 GTAGCCTTGGCTGCAAACCTATTCTTGGCCTTGTANAAGGCATCGGCCGCTGTTTGCAA
 GCTGCTACTTGCCCTCAATACGCTCTTTTGCAGCATATCTGGCTCCGATTGTGAAGCC
 TCGCCAATCCCTGGGGATCGCAATCCTGATTGTAAAGGTCTTACAGCCTCTAACTCC
 TGAAGCTTACGAAGTGTGCGACCAAACCTGAGGGCCATGGCCTGATTTCGAGGATCATGAA
 AAAATCTCCTGGTTCAACTCGT

Restriction Sites:

NotI-NotI

ACCN:

NM_022575

Insert Size:

2840 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_022575.2](#), [NP_072097.2](#)

RefSeq Size: 2769 bp

RefSeq ORF: 2520 bp

Locus ID: 64601

UniProt ID: [Q9H269](#)

Cytogenetics: 20p13

Domains: Vps16_C, Vps16_N

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 homolog of yeast class C Vps16 protein. The mammalian class C Vps proteins are predominantly associated with late endosomes/lysosomes, and like their yeast counterparts, may mediate vesicle trafficking steps in the endosome/lysosome pathway. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2009]

Transcript Variant: This variant (1) encodes the longer 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.