

Product datasheet for **SC127708**

VPS4B (NM_004869) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS4B (NM_004869) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPS4B
Synonyms:	MIG1; SKD1; SKD1B; VPS4-2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127708 sequence for NM_004869 edited (data generated by NextGen Sequencing)

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ATGTCATCCACTTCGCCAACCTCCAGAAAGCGATAGATCTGGCTAGCAAAGCAGCGCAA
GAAGACAAGGCTGGGAACCTACGAAGAAGCCCTCAGCTCTATCAGCATGCTGTGAGTAT
TTTCTTATGTCGTTAAATATGAAGCACAGGGTATAAAGCCAAGCAAAGTATCAGGGCA
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CAAATGCAAGGGGTTGGTGTAGACAATGATGGAATTTGGTCTGGGAGCTACAAATATA
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CATTTTTAAAAAGTTTCGCGGACCTTCCCGAGCTGATCCTAACCATCTTGTAGATGATCTG
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GGAGATAAACTTTTGGAGCCAGTTGTTTCCATGTCGGATATGTTGCGGTCACTATCTAAC
ACAAAACCTACAGTCAATGAACATGACTTGTGAAATTAAGAAGTTTACAGAAGATTTT
GGTCAAGAAGGCTAA

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Clone variation with respect to NM_004869.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004869 unedited</p> <pre>CGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGGTCCGAGAACCACCGGCCTC CCCAGTTTGAGGGCTGTTACCCCGTGCGCGCTTCGACGTTGCTGCTGTTGGCTCTCCTCG CCCCTCGTTCCTTGGGAACCGCTGGGAACTCCGCCATGTCATCCACTTCGCCAACCT CCAGAAAGCGATAGATCTGGCTAGCAAAGCAGCGCAAGAAGACAAGGCTGGGAACTACGA AGAAGCCCTTCAGCTCTATCAGCATGCTGTGCAGTATTTTCTTCATGTCGTTAAATATGA AGCACAGGGTGATAAAGCCAAGCAAAGTATCAGGGCAAAGTGACAGAATATCTTGATAG AGCAGAAAAAATAAAGGAGTACCTGAAAAATAAAGAGAAAAAAGCACAGAAAGCCAGTGAA AGAAGGACAGCCGAGTCCAGCAGATGAGAAGGGGAATGACAGTGTGGGGAAGGAGAATC TGATGATCCTGANAAAAAGAACTACAGAATCAACTTCAAGTGCCATTGTTATAGAACG ACCAAATGTGAAATGGAGTGACGTTGCTGGACTTGAAGGAGCCAAAGAAGCACTGGAAGA GGCTGTGATACTGCCTATTAATTNCCTCATCTTNTACAGGGCAGAGAACACCTTGGNAG GGGATCCNTATATTTGGCCGCTGGAACAGGNAAGTCTACTTAGCCAAAGCTGTAGCA ACAGAAGCCAANCCACTCACATTTTTTACAATATCTCCTCTGGATCTGNTNCTAAGTGGC TAGTGAAGTAAAAAAGTGGGTAAGAANTTATTNCNNACTGCCAGAGAGAACCAGCCCTC CATTATCTNCATTGATGAAAANTGATCTTCTGTGGNTCAAGAAAGTAAATGAAAGTGA GCCCCACGTANAATTAGACGGAGTCTATGCCATGCAGGGGTNGNGTANCATGATGAATT TGGNTCTGGACTACAATTACC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004869 unedited</p> <pre>GCGGCCGCGGGGCGAGNCCGANACTCTCCNNGGTTTTTACTTGNNACGCGGCCGCT TTTANATCGNGTTTTTTTTTTTTTTTTTTTTTTTAGGGTATATCAATTTACTTCACATAAG AGCATAATTCAGGCCTTTTCCATTTAATAACAAAAACAATCTGTACAGAAAACCCAAAGG CAACCACATAGCATATGTAAAATGTGCAATACACTTTAAAATGCAAGTTATTCTATAGC ATTTGCAAGATAGAATTTCACTGTAATTAGGGAATCTAGTTCATCCTAATTAATAGTCT TTTGATGTATAGACAATGCAATTTACAAGGCACAACCTCAGCGTTGATGCTAAAGTATG AAACACATCCTCAGATTATTTATTTGAAAATATTTAAATAGCATCATGTTTATTATTTTT TAATGAGTCATGAGCTCATTTCTAAAGCTTCATAAAGCATTACACTGATAACATATGTGT GGTCAGGACAACTGTCCCTGAACTTAAAAGGTGAAGGACAAGACCCCATATTATTATC CTGTATTAATAAAGGAAATATACATATATGTACACAGACACCCCATATCACAGACAAGAA ACTTCCCATAATTCAAAGGGAGACCATTTCCCTTATTAGCAAAGGTGCGCATACAGTATT TCATGACAGTTAAAAATTACACACCTACCACCTGTTTTTGGTCAATCTTGCTAAAAAAGA ACTGAAATAGACAATTTCTTCTTAAGGTAAAGACAATGTCTAATTTAGAAAATCTTCT CTTGAGATGCACAGTGAAGGTATCAGNTAATTAATTTAAAGCTTACCGTTTTTGT TTTTGAGACGAGTTTTTATTCAGTCGCCAAGCTTGATGCAATGGGCTTCTTGGCCCAAGC TGGATGCAATACGCGATTCAACTACTGAACTCTTGCTTCAGTTCAGTGATTCTCCGCT</pre>
Restriction Sites:	ECoRI-NOT
ACCN:	NM_004869
Insert Size:	3160 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_004869.2](#), [NP_004860.2](#)

RefSeq Size: 3337 bp

RefSeq ORF: 1335 bp

Locus ID: 9525

UniProt ID: [O75351](#)

Cytogenetics: 18q21.33

Domains: AAA, AAA, MIT

Protein Families: Transcription Factors

Protein Pathways: Endocytosis

Gene Summary: The protein encoded by this gene is a member of the AAA protein family (ATPases associated with diverse cellular activities), and is the homolog of the yeast Vps4 protein. In humans, two paralogs of the yeast protein have been identified. The former share a high degree of aa sequence similarity with each other, and also with yeast Vps4 and mouse Skd1 proteins. Mouse Skd1 (suppressor of K⁺ transport defect 1) has been shown to be a yeast Vps4 ortholog. Functional studies indicate that both human paralogs associate with the endosomal compartments, and are involved in intracellular protein trafficking, similar to Vps4 protein in yeast. The gene encoding this paralog has been mapped to chromosome 18; the gene for the other resides on chromosome 16. [provided by RefSeq, Jul 2008]