

Product datasheet for SC115346

VPS4A (NM_013245) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VPS4A (NM_013245) Human Untagged Clone
Tag:	Tag Free
Symbol:	VPS4A
Synonyms:	CIMDAG; SKD1; SKD1A; SKD2; VPS4; VPS4-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115346 sequence for NM_013245 edited (data generated by NextGen Sequencing)

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ATGACAACGTCAACCCTCCAGAAAGCCATTGATCTGGTGACGAAAGCCACAGAGGAGGAC
AAAGCCAAGAAGTACGAGGAGGCGCTGCGGCTGTACCAGCATGCGGTGGAGTACTTCCTC
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GACCCAGGAGCCATGGAGATGACTTGGATGGATGTCCCTGGGGACAAACTCTTAGAGCT
GTGTTTTGCATGTCGGACATGCTGCGGTCTCTGGCCACCACCCGCCCCACGGTGAATGCA
GACGACCTCTGAAAGTGAAGAAATTCTCAGAGGACTTTGGGCAAGAGAGTTAA

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Clone variation with respect to NM_013245.2
861 a=>g



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_013245 unedited GTTCGGATTTTGTAAACGACTTACTATAGGNNCGCCGCGCAATTCGGCACGAGGGAC CGAGGCCGCAAGCAGCGCCGCGGGTGTGGGGCGGACCCAGGAGATGAAATGACAACGTC AACCTCCAGAAAGCCATTGATCTGGTGACGAAAGCCACAGAGGAGGACAAAGCCAAGAA CTACGAGGAGGCGCTGCGGCTGTACCAGCATGCGGTGGAGTACTTCTCCACGCTATCAA GTATGAGGCCACAGCGACAAGGCCAAGGAGCATTGAGCCAAAGTGCCTGCAGTACCT AGACCGGGCCGAGAAGCTGAAGGATTATTTACGAAGCAAAGAGAAACACGGCAAGAAAGCC AGTCAAAGAGAACCAGAGTGAAGGCAAGGCAGTGACAGTGACAGTGAAGGGGATAATCC GGAGAAAAAGAACTGCAAGAACAGCTGATGGGTGCCGTCGTGATGGAGAAGCCCAACAT ACGGTGGAACGACGTGGCCGGGCTGGAGGGGGCCAAGGAGGCCCTCAAAGAAGCTGTCAT TTTGCCAATCAAATCCACACTTGTTCACAGGCAAGCGCACCCCTGGCGGGGATTCT GCTGTTCCGACCCCTGGCACAGGAAATCCTACCTGGCCAAAGCCGTGGCAACAGAGGC CAACAACCTCCACCTTCTTCTGTGTCTCCTCAGATCTGATGTCCACATGGCTGGGGGA GAGTGAAGGCTGGTCAAGAACCTGTTGAGCTGGCCAGCAGCACAAAGCCCTCCATCAT CTTTCATGATGAGGTGGATTCCCTCTGCGGGTCCCGAAATGAAATGAGAGTGAGGCCGNC CGGAGGATCAAAAACGGAGTTCTTGGTCCAATGCAGGGGGTGGGGGAAATACAATGATGG NACTCTGGTTCCTTGAGCCACAACCTAAGTCCGGGGGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_013245 unedited ATGACCGCGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTAGCTCAAAAAGGGAAAAGGATTTATTAACCATTTCCAGGACAGGGACCCAGG GGCAGTGGCTGGTTTCAGTGTCTCACCTCAAAGGAAAAAAGGCAGTGGTGAACACCC GCCTGACTGCCTTACCCTGATCTAAACGACACCATTTCTCCCAAGAAAAACACAGCC CTGGATGTGAACCTAGGAGGGTGGGAATGGCTTATGTCACCTCGGTCTTTGAGGCAAACT TGGGCTGGGGTTGCAGGGGCATCAACCAATCTGCTCTCAAGGAGCAAACTTGGGCGTAA AAGGAACGGGCAGTGGGGCTAGCCGGCTGTCTGGAGGTCTGGGTGACCTGGCAACACGGG TGTTTTTCCCCGCCACCCCGCCCACTTCTTGACACTCCAGGTGATTTATCTTTATA AATAAGATGAAAATCAAAGCCGATTAATTTAGGGGAACAAAAGATGGAAAAAAGGGG GGGGAGGCAGAAAAGCTGATGAGCCTCCAGGAGAGGAGGAAGTGAAGAGCAGTGTCC CCTGTGTGCCCCAGGGCAGTGGAGTGTCTCTGTGGCTGAAGGCCCTTCTTCTGGCTCCC TGGCAGACGGCCAGACAGCAGAGGGAACCTGTATTGACTGGGACAAGCCCTGNAGCCCT GTCTGGCTGTTGACATGGGGAAGCCTGGATTTGCCCAATTACCTTCCACTTCCATTGCC CAGTGAGCAGCTTTACTCTCTGGCCAAAGTCTTGAGAATTCTTCACTTTAGAGGCGCT GCATCACGTGGCGGNTGGGNCAAAACGCANTTGTCCACTGCAACCCAGTTTAAATTTG CCAAGC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_013245
Insert Size:	2090 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_013245.2](#), [NP_037377.1](#)

RefSeq Size: 2211 bp

RefSeq ORF: 1314 bp

Locus ID: 27183

UniProt ID: [Q9UN37](#)

Cytogenetics: 16q22.1

Domains: AAA, AAA, MIT

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. The mouse Skd1 (suppressor of K⁺ transport defect 1) has been shown to be really an 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 16; the gene for the other resides on chromosome 18. [provided by RefSeq, Jul 2008]