

Product datasheet for **SC106299**

VPS50 (AL833112) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	VPS50
Synonyms:	CCDC132; VPS54L
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF:

>OriGene ORF within SC106299 sequence for AL833112 edited (data generated by NextGen Sequencing)

ATGCTGGAGGAGGAAGATTATCCAGGAGCTATTCAAGTTGTGCCTTGAATGTCAAAAAGCT
GCCAGCACTTTTAAACATTACAGTTGTATAAGTGAAGTGAATTCAAAAGCTGCAAGATACT
TTGGAACAGATTGAGGAACAGCTGGACGTAGCTCTTTCCAAAATCTGCAAGAATTTTGAC
ATTAACCATTTATACCAAGGTTCAACAAGCTTATCGACTTCTTGAAAAACACAGACAGCA
ATGGATCAACTTCATATGCACCTTACCCCAAGCCATTCAACAACCCGTGTTTCAAGTTGTT
CTTGTTGATGTGGAACATGTGCAGGAAACACAGACACAAAATTCAAAAGCTGCAATAT
AAGGATCTCTGTACACATGTTACACCAGACAGCTATATCCATGCCTTGACAGCTGTGC
AAAGCACTATGGGAAGTTATGCTCAGCTATTATAGGACTATGGAATGGCATGAAAAGCAT
GACAATGAGGATACTGCTTCAGCTTCTGAAGGGAGTAAATATGATAGGTACTGAAGAACT
AATTTTGATCGTGGCTACATAAAAAAGAAATTAGAACATGGACTTACACGAATATGGCAG
GATGTTGAGCTAAAAGTAAAAACCTACTTGCTTGGAACTGATTTGTCTATATTCAAATAT
GATGATTTTCATCTTTGTTTGGATATAATCAGCAGGTTGATGCAAGTTGGAGAAGAATTT
TGTGGTAGCAAGTCTGAAGTTTACAGGAATCTATTAGAAAACAAAGTGCAATTTATTTT
AAGAATTACCATAGAACACGGCTCGATGAACTGAGAATGTTCTTAGAGAATGAGACTTGG
GAACTTTGTCTGTAAAGTCAAATTTCAAGCATCTTGCAACTTCATGAATTTAAATTCATG
GAACAGTCTCGCTCCCATCAGTTTACCTAGTAAACAGCCAGTCTCAACTTCTTCAAAA
ACAGTGACCTTGTGAGCAGTACTGTAGTGGTGGGAATCCATTGAAATTCAGGCCAAC
CACAAAGATGAAGAAACAGAAAGATGTCTTAGCTTCTAATGGGTATGAATCTGATGAACAA
GAAAAGAGTGCCTATCAAGAGTATGACAGTGACAGTGATGTTCTGAGGAACCTAAACGA
GACTATGTGGATGAGCAGACAGGAGATGGTCTGTGAAAAGTGTCTCGGGAACTCTA
AAAAGCAGGAAGAAATCAGATTACAGTCTAAATAAGTGAATGCACCTATCTTAACAAAT
ACAACATTGAACGTCATAAGACTTGTGGAAAAATATGCAGATGATGAACATTCTTAAG
CCAATTTGCCTTTGATGTTATTCATTTTCATGTCTCAACTATTTGATTATTACTTGTATGCA
ATATATACCTTTTTTGGTGGGAATGATTCATTGGAATCAACTGGACTCGGCCTTAGTAGT
AGTAGACTAAGAACAACTCTAAACAGAATACAAGAAAGCCTTATTGATCTAGAAGTTTCA
GCTGATCCTACTGCCACACTCACAGCAGCAGAAAGAAAGGAGAGAGGTGCCAAGTCCA
CACCTCAGTCACCTAGTGGTTTTGACATCTGGGGATACGCTGTATGGGTGGCAGAAAGA
GTGGTAGCCACGGAATCCTTGGTATTCTTGGCTGAACAGTTTGAGTTCTTCAGCCACAT
CTGGATGCTGTGATGCCTGCAGTCAAAAAGCCCTTTCTTCAGCAGTTCTATTCTCAGTCT
CAACCGCCAGTGAAGTACGGAACCAATTTACTGGATTGTAG

Clone variation with respect to AL833112.1
1600 t=>c

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for AL833112 unedited

TGTAATACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGGGAAAAAGTTACCTCA
TTGCAGACAGGTCTTCAATTAGCTGCTGTTTTCTGTACAAATGGGAGAAGACACTTGAAT
ATTGCAAAGGAAGGTTTTACTCAAGCTAGTTTAGGCCCTTCTTGCAATCAAAGGAAACGT
CAGTTGCTGATTGGACTTCTGAAATCTCTGAGAACTATAAAAACATTGCAAGAAGACAGAT
GTACGGTTAAGTGAATGCTGGAGGAGGAAGATTATCCAGGAGCTATTCAAGTTGTGCCTT
GAATGTCAAAAAGCTGCCAGCACTTTTAAACATTACAGTTGTATAAGTGAAGTGAATTC
AAGCTGCAAGATACTTTGGAACAGATTGAGGAACAGCTGGACGTAGCTCTTTCCAAAATC
TGCAAGAATTTTGACATTAACCATTATACCAAGGTTCAACAAGCTTATCGACTTCTTGGA
AAAACACAGACAGCAATGGATCAACTTCATATGCACCTTACCCCAAGCCATTCAACACACC
GTGTTTCAAGTTGTTCTTGGTTATGTGGAACATGTGCAGGAAACACAGACACAAAATTC
CAAAAGCTGCAATATAAGGATCTCTGTACACATGTTACACCAGACAGCTATATTCATGC
CTTGACAGCTGTGCANAGCACTATGGGGAGTTATGCTCAGCTATTATAGGACTATGGAA
TGGCATGAAAAGCATGANCATGAGGATACTGCTTCANCTTCTGAANGGAGTATATGATA
NGTACTGAAGAACTAATTTTATCGTGGCTACATAAAAAAGAAATAGAACATGGACTTA
CACGAATATGGCAGGGATGTCAGCTAAAGTAAAAACTACTTGCTNGAAAAGTATTGCTA
TATTCATATGN

3' Read Nucleotide Sequence:	>OriGene 3' read for AL833112 unedited GACCGCGGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTAGGCTGATCATACTA GAGTATATTTATTAATTTTACCATTATGATCACTTTGTTATACTAAATTAACCTGAC ATAAACTTTGACATTTTAAAAACAGAGAACATACTGATTTTCACTATTTTACTTACAT GTGTTTTTAAATTCATGCAGTGCTCATAATTAGGAGATACTACATATTCACCCTCACA TTATGCTTATTAAGAACCAAGCTCAGAGGGTAGAAAAGTGCCAACCTTCATTTTCCATAAA CTTCCCATACATATTAAGCCACTGTTCTTCTAATTATATACTTATGGTACATTCTTCT GTAAAAATGTATACTGTAGTCACATAACCATTGTTATGACAAGGCGGCAACATCATTTC GATTACAACAAATGAGACCAAAAGTTGAAGAGACCACAGCATATAAAAGTCATGAGAACA CCACACACATTTCAATATTTTCCACTTTCCAGTCAAAAAACATGCACAAAGTTTTCTTA GCAGATAGTTGTCAGAAGTGCATAAAAAAACTGGCTTTCAGGTCATATATGTTGAGTGAG GATCAATGCCATTGAGGAAAGAGAGCTGTGTTTATTATCTTTTANGTCTGTCTATATCAT CTATAGCTGCTAGAAGTTTTTGTCTTCTTATTGATATGGGATCCCAGGCAACAT TCACCAGATTGGTCAGCTGCTTCGTTGAATATCCCTGTGCTCTTGTATCCACCGTTCCA TGTCATTCTCAGTTAGTAATAAAGCTTAATATAAGTTTCTACAAATCTTATCANGAAT GGGGTCTATATCTCGTAAGTTTTTCAGTTTCATAAAAACTGTTGAAATCCATTGATCAG GNCACGACCTCATACTGCATTCTNGACTTGNCTATCCTTTACATN
Restriction Sites:	NotI-NotI
ACCN:	AL833112
Insert Size:	2900 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	AL833112.1 , CAI46135.1
RefSeq Size:	3505 bp
RefSeq ORF:	1782 bp
Locus ID:	55610

Cytogenetics: 7q21.2-q21.3

Gene Summary: Acts as component of the EARP complex that is involved in endocytic recycling. The EARP complex associates with Rab4-positive endosomes and promotes recycling of internalized transferrin receptor (TFRC) to the plasma membrane. Within the EARP complex, required to tether the complex to recycling endosomes. Not involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN).[UniProtKB/Swiss-Prot Function]