

Product datasheet for **SC107550**

VPS50 (NM_024553) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: VPS50 (NM_024553) Human Untagged Clone
Tag: Tag Free
Symbol: VPS50
Synonyms: CCDC132; VPS54L
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_024553 edited
 CAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACC
 GTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGAATTCGGCACGAGGTGGCTT
 CCTAGTGTACAGGCCAGCTGTGTAGTGGCTCGGTGTGATTTGTTAGCTCTTTGAGGCAGG
 GTACCCTCCTCAGGATTTGATATGCAAAAAATCAAATCTCTCATGACCCGACAGGGTCT
 GAAAAGCCCTCAAGAAAGCCTCAGTGATCTTGGTGCCATAGAGAGTCTCCGGGTCCCTGG
 AAAGGAAGAATTCAGGAACTTCGAGAACAGCCAAGTGACCCTCAAGCTGAACAAGAGCT
 TATTAATAGTATTGAACAAGTATATTTTCTGTGGATTCAATTTGATATTGTTAAATATGA
 GCTGGAGAAGCTCCACCTGTTCTCAATTTGCAAGAATTAGAGGCGTATAGAGACAAATT
 GAAACAACAGCAAGCTGCAGTATCTAAAAAAGTGCAGATTTAATCCTTGAAAAACAGCC
 TGCTTATGTAAAGGAAC TTGAAAGAGTTACCTCATTGCAGACAGGTCTTCAATTAGCTGC
 TGTATCTGTACAAATGGGAGAAGACACTTGAATATTGCAAGGAAGGTTTTACTCAAGC
 TAGTTTAGGCCTTCTTGCAAATCAAAGGAAACGTCAGTTGCTGATTGGACTTCTGAAATC
 TCTGAGAACTATAAAAACATTGCAAAGAACAGATGTACGGTTAAGTGAATGCTGGAGGA
 GGAAGATTATCCAGGAGCTATTCAGTTGTGCCTTGAATGTCAAAAAGCTGCCAGCACTTT
 TAAACATTACAGTTGTATAAGTGAACGAATTCAAAGCTGCAAGATACTTTGGAACAGAT
 TGAGGAACAGCTGGACGTAGCTCTTTCCAAAATCTGCAAGAATTTTGACATTAACCATTA
 TACCAAGGTTCAACAAGCTTATCGACTTCTTGAAAAACACAGACAGCAATGGATCAACT
 TCATATGCACCTCACCAAGCCATTCACAACACCGTGTTCAGTTGTTCTTGGTTATGT
 GGAACATGTGCAGGAAACACAGACACAAAAATTCAAAAGCTGCAATATAAGGATCTCTG
 TACACATGTTACACCAGACAGCTATATTCCATGCCTTGCAGACCTGTGCAAAGCACTATG
 GGAAGTTATGCTCAGCTATTATAGGACTATGGAATGGCATGAAAAGCATGACAATGAGGA
 TACTGCTTCAGCTTCTGAAGGGAGTAATATGATAGGTAAGTGAAGAACTAATTTTGATCG
 TGGCTACATAAAAAAGAAATTAGAACATGGACTTACACGAATATGGCAGGATGTTACAGT
 AAAAGTAAAAACCTACTTGCTTGGAACTGATTTGTCTATATTCAAATATGATGATTTTCAT
 CTTTGTGTTGGATATAATCAGCAGGTTGATGCAAGTTGGAGAAGAATTTGTGGTAGCAA
 GTCTGAAGTTTTACAGGAATCTATTAGAAAACAAAGTGCAATATTTCAGAATTACCA



[View online »](#)

TAGAACACGGCTCGATGAACTGAGAATGTTCTTAGAGAATGAGACTTGGGAACTTTGTCC
TGTTAAGTCAAATTTACGCATCTTGCAACTTCATGAATTTAAATTCATGGAAACAGTCTCG
CTCCCCATCAGTTTCACCTAGTAAACAGCCAGTCTCAACTTCTTCAAAAACAGTGACCTT
GTTTGAGCAGTACTGTAGTGGTGGGAATCCATTTGAAATTCAGGCCAACCAAAAGATGA
AGAAACAGAAGATGTCTTAGCTTCTAATGGGTATGAATCTGATGAACAAGAAAAGAGTGC
CTATCAAGAGTATGACAGTGCAGTGTGTTCTGAGGAACTCAAACGAGACTATGTGGA
TGAGCAGACAGGAGATGGTCCTGTGAAAAGTGTTCCTCGGGAAACTCTAAAAAGCAGGAA
GAAATCAGATTACAGTCTAAATAAAGTGAATGCACCTATCTTAACAAATACAACATTGAA
CGTCATAAGACTTGTGGAAAATATATGCAGATGATGAACATTCTTAAGCCAATTGCCTT
TGATGTTATTCATTTTCTGCTCAACTATTTGATTATTACTTGTATGCAATATATACCTT
TTTTGGTCGGAATGATTCATTGGAATCAACTGGACTCGGCCTTAGTAGTAGTACTAAG
AACAACTTAAACAGAATACAAGAAAGCCTTATTGATCTAGAAGTTTCAGCTGATCTAC
TGCCCACTCACAGCAGCAGAAGAAAGAAAGGAGAAGGTGCCAAGTCCACACCTCAGTCA
CCTAGTGGTTTTGACATCTGGGGATACGTTGTATGGGTTGGCAGAAAGAGTGGTAGCCAC
GGATCCTTGGTATTCTTGGCTGAACAGTTTGAGTTCCTTCAGCCACATCTGGATGCTGT
GATGCCTGCAGTCAAAAAGCCCTTCTTCAGCAGTCTATTCTCAGACAGTCTCAACCCG
CAGTGAACACGAAACCAATTTACTGGATTGTAGCTGGTAAAGCCCTTGATTATGAACA
GATGCTGCTTCTCATGGCTAATGTGAAATGGGATGTAAAAGAAATATGTACAGCACAA
CATATATGTAGATGCACTATTAAGGAATTTGAGCAGTTTAAACAGGAGGCTAAATGAAGT
TTCTAAGAGAGTTCGCATACCCTTGCTGTGCTAATATACTTTGGGAACATTGTATACG
ATTGGCTAATCGAACTATTGTAGAAGGATATGCCAATGTCAAGAAATGCAGTAATGAGGG
TCGTGCCCTGATGCAACTGGATTTTCAACAGTTTTTAAAGAACTTGA AAAACTAACAGA
TATTAGACCCATTCTGATAAAGAATTTGTAGAACTTATATTAAGCTTATTACCTAAC
TGAGAATGACATGGAACGGTGGATCAAAGAGCACAGGGAATATTCAACGAAGCAGCTGAC
CAATCTGGTGAATGTTTGCCTGGGATCCCATATCAATAAGAAAGCAAGCAAAAACCTTCT
AGCAGCTATAGATGATATAGACAGACCTAAAAGATAATGAACACAGCTCTTTTCTCAA
TGGCATTGATCCTCACTCAACATATATGACCTGAAAGCCAGTTTTTTTATGCACTTCTGA
CAACTATCTGCTAAGAAAACCTTTGTGCATGTTTTTTTACTGGAAAGTGGAAAATATTGA
AATGTGTGTGGTGTCTCATGACTTTTATATGCTGTGGTCTCTTCAACTTTTGGTCTCAT
TTGTTGTAATCTGAAATGATGTTGCCGCTTGTACATAACAATGGTTATGTGACTACAGTT
ATACATTTTACAGAAGAATGTACCATAAGTATATAATTAGAAGAACAGTGGCTTAATATA
TGTATGGGAAGTTTATGGAATAAGTGGCACTTTTCTACCCTCTGAGCTTGGTTCTT
AATAAGCATAATGTGAGGGTGAATATGTAGTATCTCCTAATTATGAGCACTGCATGAGAA
TTAAAAACACATGTAAGTAAATAGTTGAAAAATCAGTATGTTCTCTGTTTTTAAATG
TCAAAGTTTATGTGAGGGTTAATTTAGTTATAACAAAGTATCATAATGGTGAATTTAA
TAAATATACTCTAGTATGAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCG
GTCATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCCAG

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_024553 unedited GAGGTGGCTTCCTAGTGTGAGGGCCAGCTGTGTAGTGGCTCGGTGTGATTTGTTAGCTCT TTGAGGCAGGGTACCCTCCTCAGGATTTGATATGCAAAAAATCAAATCTCTCATGACCC GACAGGGTCTGAAAAGCCCTCAAGAAAGCCTCAGTGATCTTGGTGCCATAGAGAGTCTCC GGGTCCCTGAAAAGGAAGAATTCAGGGAAGCTTCGAGAACAGCCAAGTGACCCCTCAAGCTG AACAAAGAGCTTATTAATAGTATTGAACAAGTATATTTTTCTGTGGATTCATTTGATATTG TTAAATATGAGCTGGAGAAGCTTCCACCTGTTCTCAATTTGCAAGAATTAGAGGCGTATA GAGACAAATTGAAACAACAGCAAGCTGCAGTATCTAAAAAAGTGCCAGATTTAATCCTTG AAAAACAGCCTGCTTATGTAAAGGAAGCTTAAAAGAGTTACCTCATTGCAGACAGGCTTTC AATTAGCTGCTGTATCTGTACAAATGGGAGAAGACACTTGAATATTGCAAAGGAAGGTT TACTCAAGCTAGTTTAGGCCTTCTTGCAAATCAAAGGAAACGTCAGTTGCTGATTGGAC TTCTGAAATCTCTGAGAACTATAAAAAACATTGCAAAGAACAGATGACGGGTTAAGTGAA ATGCTGGAGGAGGAAGATTATCCAGGAGCTATTGAGTTGCTTGAATGTCAAAAAGCT GCCAGCACTTTTAAACATTACAGNTGTATAAGTGAAGTGAATTCAAAGCTGCAGANACTT TGGNACAGATTGAGGAACAGCTGGACGTAAGTCTTTCCAATCTGCAGAAATTTGACATT AACCATT
Restriction Sites:	NotI-NotI
ACCN:	NM_024553
Insert Size:	4000 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:	<ol style="list-style-type: none"> 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:	<u>NM_024553.2</u> , <u>NP_078829.1</u>
RefSeq Size:	1216 bp
RefSeq ORF:	984 bp
Locus ID:	55610
UniProt ID:	<u>Q96JG6</u>
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]

Transcript Variant: This variant (2) differs in the 3' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a.