

## Product datasheet for **SC126252**

### **VPS53 (NM\_018289) Human Untagged Clone**

#### Product data:

|                    |                                |
|--------------------|--------------------------------|
| Product Type:      | Expression Plasmids            |
| Tag:               | Tag Free                       |
| Symbol:            | VPS53                          |
| Synonyms:          | HCCS1; hVps53L; PCH2E; pp13624 |
| Mammalian Cell     | None                           |
| Selection:         |                                |
| Vector:            | <u>pCMV6-XL5</u>               |
| E. coli Selection: | Ampicillin (100 ug/mL)         |



**Fully Sequenced ORF:**

>OriGene sequence for NM\_018289 edited  
 GGCGGCTGGAGGCTGAGTTGGGCTCGCGCGGGGTGCGCAGGGGGCCGGGTGGCGGAA  
 TGATGGAGGAGGAGGAACTGGAGTTCTGGAGGAGCTGGAAGCCGTGCTGCAGCTCACGC  
 CCGAGGTGCAGCTGCCATCGAGCAGGTGTTTCCAAGCCAGGACCCCTCTAGATCGAGCAG  
 ATTTCAATGCTGTTGAGTATATCAATACCCTGTTCCCAACCGAGCAATCTCTGGCGAACA  
 TAGACGAAGTCGTGAACAAAATTAGGCTGAAAAAAGGAGACTGGATGACAATATTCGAA  
 CTGTTGTAAGAGGTCAGACGAACGTGGGCGAGGATGGACGGCAAGTGAAAGAAATCACCC  
 GTGATATTAAGCAATTAGATCACGCCAAACGCCACCTGACCACCTCAATCACCACACTGA  
 ACCACCTGCACATGCTGGCAGGAGGTGTCGACTCCCTCGAAGCCATGACCAGGCGAAGAC  
 AATACGGAGAAGTTGCTAATCTCCTTCAGGGTGTGATGAATGTCTTGGAGCACTTCCACA  
 AGTATATGGGATTCCGAGATCCGGCAGCTTTCCGAAAGAGTGAAGGCTGCACAGACTG  
 AGTTAGGACAGCAAACTCTGGCAGATTTTGAAGAAGCGTTTCTTCCAGGGCACCAAGA  
 GACCAGGAGGACCCAGCAATGTTCTACGAGATGCATGTCTGGTTGCTAATATTCTAGATC  
 CCAGGATCAAACAGGAAATCATCAAAAAGTTTATTAACAGCATCTGTCAGAGTATCTGG  
 TACTTTTTCAAGAAAACCAAGATGTTGCCTGGCTGGACAAAATCGACAGACGCTATGCCT  
 GGATAAAACGCCAGCTTGTGGACTATGAGGAGAAATACGGCCGATGTTTCCACGTGAGT  
 GGTGCATGGCTGAGAGGATTGCGGTGGAATTTTGCCATGTGACAAGGGCAGAACTTGCCA  
 AGATTATGCGTACCAGAGCGAAGGAAATGAAGTGAATTTGCTTCTTTTGCTATTCAAA  
 GAACAACTAACTTTGAGGGGTTTCTTGCAAAACGCTTCTCCGGCTGCACCCTGACCGATG  
 GGACCTGAAAAAGCTTGAGTCTCCACCCCATCTACCAATCCCTTCTGGAAGATGAGC  
 CAACACCAGAGATGGAGGAACTGGCAACGGAGAAAGGAGATTTAGATCAACCAAGAAGC  
 CTAAGCCCCAGACAATCCATTTTCATGGCATTGTTTCCAAGTGTTTGAGCCTCATCTCT  
 ACGTGTATATCGAATCCCAAGACAAGAACCCTCGGAGAGCTGATAGATCGGTTTGTGGCTG  
 ATTTCAAAGCCCAGGGGCCACCTAAGCCCAACACTGATGAAGGGGGTGCCGTGCTCCCA  
 GCTGCGCCGACCTCTTTGTCTACTACAAGAAGTGCATGGTGAATGCTCTCAGCTCAGTA  
 CTGGGGAGCCCCATGATCGCCCTGACCACCATTTTCCAGAAGTACCTCCGAGAATATGCCT  
 GGAAAACTCTCTGCGCAACCTGCCCAAAACCAACCAGCAGTGGAGGACTGACTATCA  
 GCAGCCTCCTCAAGGAAAAGGAGGGCTCAGAAAGTAGCCAAGTTCACTCTGGAGGAGCTCT  
 GCCTCATCTGTAACATCTGAGCACGGCAGAGTACTGTCTGGCCACCACCAGCAGCTAG  
 AAGAAAACTCAAAGAAAAAGTGGATGTAAGTCTGATTGAACGAATCAATCTGACTGGAG  
 AGATGGACAGGTTGAGCAGGTCATCTCCAGCAGTATTCAGCTGCTGGTTCAGGATCTGG  
 ATGCTGCCTGTGATCCTGCCCTGACTGCCATGAGCAAGATGCAAGTGGCAGAACGTGGAGC  
 ACGTTGGTGACAGAGCCCTACGTACCTCTGTCACTTCTGCACATCAAGCAGAACGTCC  
 CCATCATCCGTGACAACCTGGCTTCCACACGCAAGTACTTCACTCAGTTCTGCGTTAAAT  
 TTGCAAACTCCTTCATTCCTCAAAATTCATCACCCACCTCTTCAAGTGCAAGCCAATTAGCA  
 TGGTGGGAGCAGAACAGGTGAGATGGACGTAGTATCAGGCATTTGCTGCGCAGCTTTTGT  
 TGATAGTCAAGCACATATTCTTCTAGTCCAGATCTACTTGGCAGGAATAAAATTGATGAT  
 GTCCCCGTGTTGGGACAGTATAATGACTCAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide  
Sequence:**

>OriGene 5' read for NM\_018289 unedited  
 NGGTCGAATTTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGGCGGCTGGA  
 GGCTGAGTTGGGCTCGCGCGGGGGTTCGCGAGGGGGCCGGGTGGCGGAATGATGGAGGA  
 GGAGGAACTGGAGTTCTGGAGGAGCTGGAAGCCGTGCTGCAGCTCACGCCCAGGTGCA  
 GCTGGCCATCGAGCAGGTGTTTCCAAGCCAGGACCCCTCTAGATCGAGCAGATTTCAATGC  
 TGTGAGTATATCAATACCCTGTTCCCAACCGAGCAATCTCTGGCGAACATAGACGAAGT  
 CGTGAACAAAATTAGGCTGAAAAAAGGAGACTGGATGACAATATTCGAACTGTTGTAAG  
 AGGTGACAGCAACGTGGGCGAGGATGGACGGCAAGTGAAAGAAATCACCCGTGATATTA  
 GCAATTAGATCACGCCAAACGCCACCTGACCACCTCAATCACCACACTGAACCACCTGCA  
 CATGCTGGCAGGAGGTGTCGACTCCCTCGAAGCCATGACCAGGCGAAGCAATACGGAGA  
 AGTTGCTAATCTCCTTCAGGGTGTGATGAATGTCCTGGAGCACTTCCACAAGTATATGGG  
 GATTCCGCAGATCCGGCAGCTTTCCGAAAGAGTGAAGGCTGCACAGACTGAGTTAGGACA  
 GCAAACTCTGGCAGATTTTGAAGAAGCGTTTCTTCCAGGGCACCAAGAGACCAGGAGG  
 ACCCAGCAATGGTCTACGAGATGCATGTCTGGTTGCTAATATTCTAGATCCCAGGATCAA  
 ACAGGAAATCATCAAAAAGTTATTAACAGCATCTGTGAGAGTATCTGGTACTTTTTCAAG  
 AAACCCAGATGTGCTGGCTGGACAAAATCGACAGACGATGCCTGGATAAACGCCAGCTG  
 TGGACTATGAGGAGAATACCGC

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Restriction Sites:</b>     | Please inquire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ACCN:</b>                  | NM_018289                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>OTI Disclaimer:</b>        | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p> |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq:</b>                | <a href="#">NM_018289.2</a> , <a href="#">NP_060759.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>           | 2209 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq ORF:</b>            | 2013 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Locus ID:</b>              | 55275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID:</b>            | <a href="#">Q5VIR6</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cytogenetics:</b>          | 17p13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**Gene Summary:**

This gene encodes a protein with sequence similarity to the yeast Vps53p protein. Vps53p is involved in retrograde vesicle trafficking in late Golgi. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) has multiple differences in the coding region and uses a different segment for its 3' UTR but maintains the reading frame, compared to variant 1. The resulting protein (isoform 2) has a shorter and distinct C-terminus when it is compared to isoform 1.