

## Recombinant Human VPS16, His-tagged

**Cat. No.** VPS16-31738TH    **Lot. No.** (See product label)

### SPECIFICATION

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| <b>Product Overview</b> | Recombinant fragment, corresponding to amino acids 334-839 of Human VPS16 with N terminal His tag; 506 amino acids, 59kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 334-839 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | <p>Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles.</p> <p>This gene encodes the human homolog of yeast class C Vps16 protein. The mammalian class C Vps proteins are predominantly associated with late endosomes/lysosomes, and like their yeast counterparts, may mediate vesicle trafficking steps in the endosome/lysosome pathway. Two transcript variants encoding different isoforms have been found for this gene.</p> |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilised:Reconstitute with 104 µl distilled water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage buffer</b>   | Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sequences of amino acids</b> | <p>SEEIFKIASMAPGALLLEAQKEYEKESQKADEYLRQEL GQLTQAVQQCIEAAGHE</p> <p>HQPDMQKSLRLRAASFGKCFD RFPDSFVHMCQDLRLNAVRDYHIGIPLTYSQYK</p> <p>QLT IQVLLDRLVLRRLYLPLAIQICEYLRLEPEVQGVSRILAHWA CYKVQQKDVSDVD</p> <p>ARAINQKLGDTPGVSYSDIAARAY GCGRTELAIKLLEYEPRSGEQVPLLLKMKRSKL</p> <p>ALSKA IESGDTDLVFTVLLHLKNELNRGDFFMTLRNQPMALSLYR QFCKHQELET</p> <p>KDLYNQDDNHQELGSFHIRASYAAEER IEGRVAALQTAADAFYKAKNEFAAKATED</p> <p>QMRLRLQR RLEDELGGQFLDLSLHDTVTTLLGGHNKRAEQLARDFRI PDKRLWW</p> <p>LKLTALADLEDWEELEKFSKSKSPIGYLPF VEICMKQHNKYEAKKYASRVGPEQKV</p> <p>KALLLVGDVAQA ADVAIEHRNEAELSLVLSHCTGATDGATADKIQRARAQAQKK</p> |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>                | VPS16 vacuolar protein sorting 16 homolog (S. cerevisiae) [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b>          | VPS16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>                 | VPS16; vacuolar protein sorting 16 homolog (S. cerevisiae); vacuolar protein sorting-associated protein 16 homolog;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene ID</b>                  | 64601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>              | NM_022575                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>           | NP_072097                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>                      | 608550                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Uniprot ID</b>               | Q9H269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| <b>Chromosome<br/>Location</b> | 20p13                   |
| <b>Function</b>                | actin filament binding; |