

Product datasheet for **RC238760**

VPS45A (VPS45) (NM_001279354) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | VPS45A (VPS45) (NM_001279354) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | VPS45 |
| Synonyms: | H1; H1VPS45; SCN5; VPS45A; VPS45B; VPS54A; VSP45; VSP45A |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RC238760 representing NM_001279354
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTATACACACAATCGGAGATTCTACAGAAGGAAGGTACCTCTTTGAACGCATTGATTCTCAAATC
 GAGAGATCATGAAACACCTGAAGCAATTTGTTTTCTTCGACCTACAAAGGAGAATGTGGATTATATTAT
 TCAGGAGCTCCGAAGACCCAAATACACTATATATTTTCATTTATTTTCAGTAATGTGATCAGCAAGAGTGAC
 GTGAAGTCATTGGCTGAAGCTGATGAACAGGAAGTTGTGGCTGAGGTTCCAGGAATTTTATGGTGATTACA
 TTGCTGTGAACCCACATTTGTTTTCCCTCAATATTTGGGTTGCTGCCAGGGTCGAAATTTGGGATCCAGC
 CCAGCTATCTAGAACAACCTCAAGGGCTTACAGCTCTCCTTTTATCTCTGAAGAAGTGTCCCATGATTCTGT
 TATCAGCTCTCATCAGAGGCAGCAAGAGACTTGCAGAGTGCCTAAGCAAGTGATAACTAAAGAATATG
 AACTGTTTGAATCCGTCGGACAGAGGTTCTCCATTGCTCCTATTTTATAGATCGCTGTGATGATGCCAT
 CACCCCATTTGCTAAACCACTGGACATATCAGGCCATGGTCCACGAACCTACTAGGCATAAACAACAATCGG
 ATTGATCTTTCCAGAGTCCCGGAATCAGTAAAGACTTAAAGAGAAGTGGTCTATCTGCTGAAAATGATG
 AATTCTATGCTAATAATATGTACCTGAACCTTGTCTGAGATTGGTAGCAATATAAAGAATCTCATGGAGA
 TTTTCAGAAGAAGAAACCAAAAGAACAGCAAAACTAGAATCAATAGCAGACATGAAGGCCTTTGTTGAG
 AATTATCCACAGTTCAAGAAAATGTCTGGGACTGTTTCAAAGCATGTGACAGTGGTTGGAGAAGTGTCTC
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 AGTCAGAGGAAGTGACCTCTTCAGCCCAAGATGCTGTGGCTATCACCAACAATTCCTCAAAGGACTG
 AAGGGAGTAGAAAATGTATATACACAGCATCAACCTTCTACATGAAACCTGGATCATCTCATCAAAG
 GAAGGCTTAAGGAAAACCTATATCCTTATTTAGGCCCCAGCACACTCAGAGACAGACCTCAGGATATCAT
 TGTGTTTGTAAATGGAGGAGCCACCTATGAAGAGGCTCTAACAGTTTATAACCTGAACCGCACCCTCT
 GGAGTGAGGATTGCTCTGGGAGGCACCACAGTGCACAACAGAAAAGTTTCTAGAGGAAGTTCTGGCTT
 CTGGACTGCACAGCCGAAGCAAGGAGAGCTCTCAAGTCACATCAAGGTCAGCGAGCAGAAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238760 representing NM_001279354
 Red=Cloning site Green=Tags(s)

MVYTQSEILQKEVYLFERIDSQNREIMKHLKAICFLRPTKENVDYIIQELRRPKYTIYFIYFSNVISKSD
 VKSLAEADEQEVAEVQEFYGDYIAVNPFLFSLNILGCCQGRNWDPAQLSRTTQGLTALLLSLKKCPMIR
 YQLSSEAAKRLAECVKQVITKEYELFEFRRTVEVPPLLLILDRCDDAITPLLNQWYQAMVHELLGINNRR
 IDLSRVPGISKDLREVVLSAENDEFYANNMYLNF AEIGSNIKNLMEDFQKKPKPEQQKLESIADMKAFVE
 NYPQFKKMSGTVSKHVTVVGELSRVLSERNLLEVSEVEQELACQNDHSSALQNIKRLQNPKVTEFDAAR
 LVMLYALHYERHSSNSLPLMMDLRNKGVSEKYRKLVS AVVEYGGKRVRSDFSPKDAVAITKQFLKGL
 KGVENVYQHQPFLHETLDHLIKGRLKENLYPYLGPSTLRDRPQDIIVFVIGGATYEEALTVYNLNRTP
 GVRIVLGGTTVHNTKSFLEEVLASGLHSRSKESQVTSRSASRR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

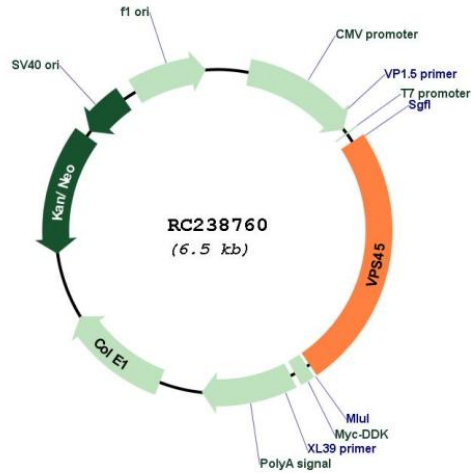
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



| | |
|-------------------------------|---|
| ACCN: | NM_001279354 |
| ORF Size: | 1602 bp |
| OTI Disclaimer: | 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. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| 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: | NM_001279354.2 |
| RefSeq Size: | 2469 bp |
| RefSeq ORF: | 1605 bp |
| Locus ID: | 11311 |
| UniProt ID: | Q9NRW7 |
| Cytogenetics: | 1q21.2 |
| Protein Pathways: | Endocytosis |
| MW: | 61.6 kDa |
| Gene Summary: | 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. This gene is a member of the Sec1 domain family, and shows a high degree of sequence similarity to mouse, rat and yeast Vps45. The exact function of this gene is not known, but its high expression in peripheral blood mononuclear cells suggests a role in trafficking proteins, including inflammatory mediators. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2013] |