

Product datasheet for **MC206490**

Vps4a (BC018368) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps4a (BC018368) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps4a
Synonyms:	MGC11698
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC018368, the custom clone sequence may differ by one or more nucleotides

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ATGACAACGTCAACCCTCCAGAAAGCCATCGATCTGGTGACAAAAGCCACAGAAGAGGATAAAGCCAAGA
ACTACGAGGAGGCACTCCGCTCTACCAGCATGCTGTGGAGTATTTCTCCACGCCATCAAATATGAAGC
ACACAGTGACAAGGCAAGGAGAGCATTGAGCAAAAGTGCATGCAGTACCTAGACAGAGCGGAGAAGCTG
AAGGATTATTTACGAAACAAAGAGAAACATGGCAAGAAGCCAGTCAAAGAGAACCAGAGTGAAGGCAAGG
GTAGTGACAGTGACAGTGAAGGGGATAATCCAGAGAAAAAGAAGTTACAAGAACAATTGATGGGTGCTGT
TGTGATGGAGAAGCCGAACATACGGTGAATGATGTAGCTGGACTGGAGGGGGCTAAAGAGGCTCTCAA
GAAGCTGTGATTTTGCCAATTAATTTCCACACTTATTCACAGGCAAACGCACTCCTTGGCGAGGCATAC
TCCTCTTTGGGCCCCAGGCACAGGCAAGTCTACCTGGCCAAAGCCGTGGCAACAGAAGCCAACAACCTC
TACCTTCTTCTGTGTCTCCTCGGATCTGATGTCTAAGTGGTTGGGGAAAGCGAGAAGCTAGTCAAG
AACCTGTTGAGCTGGCCCGGCAGCATAAGCCTTCCATCATCTTCATTGATGAGGTAGATTCCCTCTGTG
GGTCACGGAATGAAAATGAGAGTGAAGCCGCTCGTAGGATCAAAAACAGAGTTCTTGGTCCAGATGCAAGG
AGTGGGAATAATAATGATGGAACCTTGTCTTGGTGCCACAAACATCCCCTGGGTGTTGGATTGAGCC
ATCAGGAGGAGGTTTAAAAGCGAATTTATATCCATTGCCAGAGGAAGCGGCCCGTGCCTCAATGTTTC
GGTTACATCTGGGAAGCACACCTCACAACCTCACAGATGCTAACATTACAGAGCTGGCCCGCAAGACAGA
AGGCTACTCAGGAGCAGATATCAGCATCATTGTGCGGGACTCCCTCATGCAGCCAGTCAAGAAAGTACAG
TCAGCAACACACTTCAAGAAGGTGTGTGGCCCTTCTCGAACCAACCCTAGCGTTATGATTGATGATCTTC
TGACCCCATGTTCTCCGGGAGATCCAGGGGCCATAGAGATGACTTGGATGGATGTCCCTGGTGATAAAT
CTTAGAGCCTGTGGTTTGCATGTCGGACATGCTCCGGTCTTTGGCCACTACCCGGCCACAGTGAATGCA
GACGACCTCTGAAAGTAAAGAAATTCTCTGAGGACTTTGGACAGGAGAGTTAA
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Restriction Sites: EcoRI-NotI



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ACCN:	BC018368
Insert Size:	1314 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:	BC018368 , AAH18368
RefSeq Size:	2089 bp
RefSeq ORF:	1314 bp
Locus ID:	116733
Cytogenetics:	8 D3
Gene Summary:	Involved in late steps of the endosomal multivesicular bodies (MVB) pathway. Recognizes membrane-associated ESCRT-III assemblies and catalyzes their disassembly, possibly in combination with membrane fission. Redistributes the ESCRT-III components to the cytoplasm for further rounds of MVB sorting. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. In conjunction with the ESCRT machinery also appears to function in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis. Involved in cytokinesis: retained at the midbody by ZFYVE19/ANCHR and CHMP4C until abscission checkpoint signaling is terminated at late cytokinesis. It is then released following dephosphorylation of CHMP4C, leading to abscission. VPS4A/B are required for the exosomal release of SDCBP, CD63 and syndecan (By similarity).[UniProtKB/Swiss-Prot Function]