

Product datasheet for **MR206965**

Vps4a (NM_126165) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps4a (NM_126165) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vps4a
Synonyms:	4930589C15Rik; AI325971; AW553189
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206965 representing NM_126165
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAACGTCAACCCTCCAGAAAGCCATCGATCTGGTGACAAAAGCCACAGAAGAGGATAAAGCCAAGA
 ACTACGAGGAGGCACTCCGTCTCTACCAGCATGCTGTGGAGTATTTCTCCACGCCATCAAATATGAAGC
 ACACAGTGACAAGGCCAAGGAGAGCATTGAGCAAAAGTGCATGCAGTACCTAGACAGAGCGGAGAAGCTG
 AAGGATTATTTACGAAACAAAGAGAAACATGGCAAGAAGCCAGTCAAAGAGAACCAGAGTGAAGGCAAGG
 GTAGTGACAGTGACAGTGAAGGGGATAATCCAGAGAAAAAGAAGTTACAAGAACAATTGATGGGTCTGT
 TGTGATGGAGAAGCCGAACATACGGTGAATGATGTAGCTGGACTGGAGGGGGCTAAAGAGGCTCTCAA
 GAAGCTGTGATTTTGCAATTAATTCCACACTTATTACAGGCCAAACGCCTCCTTGGCGAGGCATAC
 TCCTCTTTGGGCCCCAGGCACAGGCAAGTCTACCTGGCCAAAGCCGTGGCAACAGAAGCCAACAACCT
 TACCTTCTCTGTGTCTCTCGGATCTGATGTCTAAGTGGTTGGGGAAAGCGAGAAGCTAGTCAAG
 AACCTGTTTGGCTGGCCGGCAGCATAAGCCTTCCATCATCTTCAATTGATGAGGTAGATTCCTCTGTG
 GGTACCGAATGAAAATGAGAGTGAAGCCGCTCGTAGGATCAAAACAGAGTTCTTGGTCCAGATGAAGG
 AGTGGGAATAATAATGATGGAACCTTGTCTTGGTGCCACAAACATCCCTGGGTGTTGGATTGAGCC
 ATCAGGAGGAGGTTTGAAGGCAATTTATATCCATTGCCAGAGGAAGCGGCCCGTGGCCAAATGTTTC
 GGTTACATCTGGGAAGCACACCTCACAACCTCACAGATGCTAACATTACGAGCTGGCCCGCAAGACAGA
 AGGCTACTCAGGAGCAGATATCAGCATATTGTGCGGGACTCCCTCATGCAGCCAGTCAAGAAAGTACAG
 TCAGCAACACACTTCAAGAAGGTGTGTGCCCTTCTCGAACCAACCCTAGCGTTATGATTGATGATCTTC
 TGACCCCATGTTCTCCGGGAGATCCAGGGGCCATAGAGATGACTTGGATGGATGTCCCTGGTGATAAAT
 CTTAGAGCCTGTGGTTTGCATGTGCGGACATGCTCCGGTCTTGGCCACTACCCGGCCACAGTGAATGCA
 GACGACCTCTGAAAGTAAAGAAATTCTCTGAGGACTTTGGACAGGAGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206965 representing NM_126165
 Red=Cloning site Green=Tags(s)

MTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCMQYLDRAEKL
 KDYL RNKEKHGKPKVKENQSEGKSDSDSEGDNPEKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALK
 EAVILPIKPHLFTGKRPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSVSSDLMSKWLGESEKLVK
 NLFELARQHKPSIIFIDEVDSLCSRNESEAAARRIKTEFLVQMVGNNNDGTLVLGATNIPWVLD
 IRRRFEKRIYIPLPEEAARAQMFRLHLGSTPHNLTDANIHELARKTEGYSGADISIVRDSLMPVRKVQ
 SATHFKKVCGPSRTNPSVMIDLLTPCSPGDPGAIEMTWMDVPGDKLLEPVVCMSDMLRSLATTRPTVNA
 DDLLKVKKFSDFGQES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9063_b01.zip

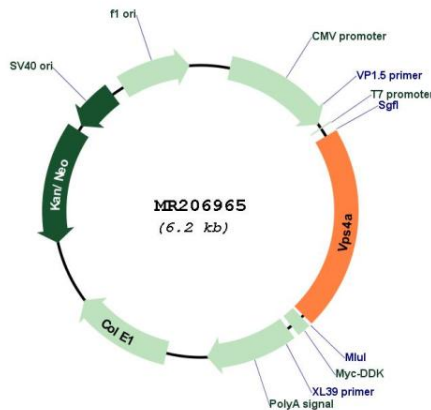
Restriction Sites:

SgfI-MluI

MW: 48.9 kDa

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]

Product images:



Circular map for MR206965