

Product datasheet for **MG206965**

Vps4a (NM_126165) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps4a (NM_126165) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vps4a
Synonyms:	4930589C15Rik; AI325971; AW553189
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206965 representing NM_126165 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAACGTC AACCTCCAGAAAGCCATCGATCTGGTGACAAAAGCCACAGAAGAGGATAAAGCCAAGA
ACTACGAGGAGGCACTCCGCTCTACCAGCATGCTGTGGAGTATTTCTCCACGCCATCAATATGAAGC
ACACAGTGACAAGGCCAAGGAGAGCATTGAGCAAAGTGCATGCAGTACCTAGACAGAGCGGAGAAGCTG
AAGGATTATTTACGAAACAAAGAGAAACATGGCAAGAAGCCAGTCAAAGAGAACCAGAGTGAAGGCAAGG
GTAGTGACAGTGACAGTGAAGGGGATAATCCAGAGAAAAAGAAGTTACAAGAACAATTGATGGGTGCTGT
TGTGATGGAGAAGCCGAACATACGGTGAATGATGTAGCTGGACTGGAGGGGGCTAAAGAGGCTCTCAA
GAAGCTGTGATTTTGCAATTAATTTCCACACTTATTACAGGCAAACGCACTCCTTGCGAGGCATAC
TCCTCTTTGGGCCCCAGGCACAGGCAAGTCTACCTGGCCAAAGCCGTGGCAACAGAAGCCAACA
AACCTGTTTGGAGCTGGCCGGCAGCATAAGCCTCCATCATCTTCATTGATGAGGTAGATTCCCTCTGTG
GGTCACGGAATGAAAATGAGAGTGAAGCCGCTCGTAGGATCAAACAGAGTCTTGGTCCAGATGCAAGG
AGTGGGAATAAATGATGGAACCTTTGTTCTTGGTGCCACAACATCCCCTGGGTGTTGGATTACGCC
ATCAGGAGGAGGTTTAAAAGCGAATTTATCCATTGCCAGAGGAAGCGGCCCGTCCCAAATGTTTC
GGTTACATCTGGGAAGCACACCTCACACCTCACAGATGCTAACATTCACGAGCTGGCCCGCAAGACAGA
AGGCTACTCAGGAGCAGATATCAGCATATTGTGCGGGACTCCCTCATGCAGCCAGTCAGAAAAGTACAG
TCAGCAACACACTTCAAGAAGGTGTGTGGCCCTTCTCGAACCAACCCTAGCGTTATGATTGATGATCTTC
TGACCCCATGTTCTCCGGGAGATCCAGGGGCCATAGAGATGACTTGGATGGATGTCCCTGGTGATAAACT
CTTAGAGCCTGTGGTTTGCATGTCGGACATGCTCCGGTCTTTGGCCACTACCCGGCCACAGTGAATGCA
GACGACCTCTGAAAGTAAAGAAATTCTCTGAGGACTTTGGACAGGAGAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >MG206965 representing NM_126165
 Red=Cloning site Green=Tags(s)

MTTSTLQK AIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCMQYLDRAEKL
 KDYL RNKEKHGKPKVKENQSEGKGS DSDSEGDNPEKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALK
 EAVILPIKFPHLFTGKRTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSVSSSDLMSKWLGESEKLVK
 NLFELARQHKPSIIFIDEVDSL CGSRNENESEAARRIKTEFLVQM QGVGNNDGTLVLGATNIPWVLD SA
 IRRRFEKRIYIPLPEEAARAQMFRLHLGSTPHNLT DANIHELARKTEGYSGADISIVRDSL MQPVRKVQ
 SATHFKK VCGPSRTNPSVMIDLLTPCSPGDPGAIEMT WMDVPGDKLLEPVVCM SMLRSLATTRPTVNA
 DDLLKVKK FSEDFGQES

TRTRPLE - GFP Tag - V

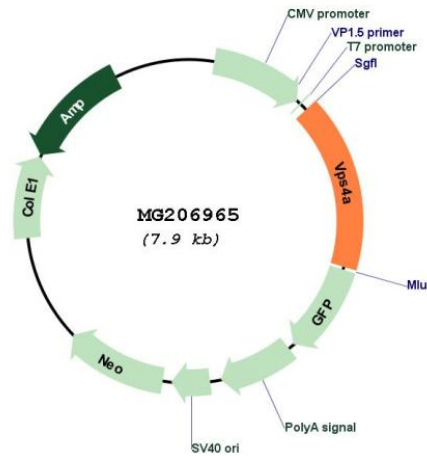
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_126165

ORF Size:	1311 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_126165.1 , NP_569053.1
RefSeq Size:	2089 bp
RefSeq ORF:	1314 bp
Locus ID:	116733
UniProt ID:	Q8VEJ9
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]