

Product datasheet for **RR211567**

Vps4a (NM_145678) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps4a (NM_145678) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vps4a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211567 representing NM_145678 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACAACGTCAACCCTCCAGAAAGCCATCGATCTGGTGACAAAAGCCACAGAAGAGGACAAAGCCAAGA
ACTACGAGGAGGCACTTCGGCTCTACCAGCATGTGTGGAGTATTTCTCCACGCCATCAAATATGAAGC
CCACAGTGACAAGGCCAAGGAGAGCATTTCGAGCAAAGTGATGCAGTACCTAGACAGAGCGGAGAAGCTG
AAGGATTATTTAAGAAACAAGAGAAACATGGCAAAAAGCCAGTCAAAGAGAATCAGAGTGAAGGCAAGG
GTAGTGACAGTGACAGCGAAGGGGATAATCCAGAGAAAAAGAAATTACAAGAACAGTTGATGGGTGCTGT
TGTGATGGAGAAGCCCAACATTCGGTGGAAATGATGTAGCTGGACTGGAGGGAGCTAAAGAAGCTCTCAA
GAAGCTGTGATTTTGCCGATAAAATTTCCACACTATTTCACAGGCAAACGTACTCCTTGCCGAGGCATAC
TGCTCTTTGGGCCCCAGGCACAGGCAAGTCTACCTGGCCAAAGCCGTGGCAACAGAAGCCAACAACCTC
TACCTTCTCTGTGTCCTCCTCGGATCTGATGTCTAAGTGGTTGGGGAAAGCGAGAAGCTAGTCAA
AACCTGTTTGAGTTGGCCAGACAGCACAAGCCTTCCATCATCTTCATTGATGAGGTGGATTCCTCTGCG
GGTCACGGAATGAAAATGAGAGCGAGGCAGCCGAAGGATCAAAACAGAGTTCCTGGTCCAAATGCAGGG
AGTGGGAATAATAATGATGGGACTCTTGTTCTTGGTGCCACAAACATCCCTGGGTGTTGGATTACGCC
ATCAGGAGGAGGTTTGAAGCGAATTTATATCCATTGCCAGAGGAAGCGGCCCGTGCCAGATGTTTC
GGTTACACCTGGGAAGCACACCTCACAACCTCACAGATGCTAACATCCATGAGCTGGCCCGCAAGACAGA
AGGCTACTCAGGAGCAGATATCAGCATTATCGTGCGGGACTCTCTCATGCAGCCAGTCAGAAAAGTACAG
TCAGCAACACACTTCAAGAAGGTTTGTGGTCTTCTCGAACCAACCCTAGTGTTATGATTGATGATCTTC
TGACCCCATGTTCTCCAGGAGATCCAGGGGCTATAGAGATGACTTGGATGGATGTCCCTGGTGATAA
CTTAGAGCCTGTGGTTTGCATGTGCGACATGCTCCGGTCTCTGGCCACTACCCGGCCACAGTGAATGCA
GATGACCTCCTGAAAGTAAAGAAATCTCTGAGGACTTTGGACAGGAGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211567 representing NM_145678
 Red=Cloning site Green=Tags(s)

MTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCMQYLDRAEKL
 KDYL RNKEKHGKPKVKENQSEKGSDDSEGDNPEKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALK
 EAVILPIKFPHLFTGK RTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSVSSSDLMSKWLGESEKLVK
 NLFELARQHKPSIIFIDEVDSL CGSRNENESEAARRIKTEFLVQM QGVGNNDGTLVLGATNIPWVLD SA
 IRRRF EKRIYIPLPEEAARAQMFRLHLGSTEPHNLTDANIHELARKTEGYSGADISIVRDSL MQPVRKVQ
 SATHFKK VCGPSRTNPSVMIDLLTPCSPGDPGA IEMT WMDVPGDKLLEPVVCM SMLRSLATTRPTVNA
 DDLLKVKKFSDFGQES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

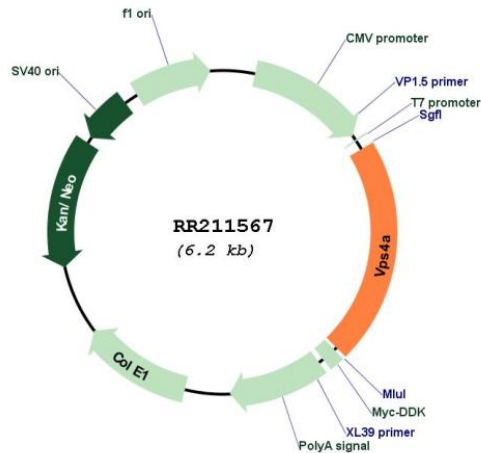
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_145678
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_145678.1 , NP_663711.1
RefSeq Size:	1314 bp
RefSeq ORF:	1314 bp
Locus ID:	246772
UniProt ID:	Q793F9
Cytogenetics:	19q12
MW:	48.9 kDa
Gene Summary:	binds Rho family GTPase Rnd2; may play a role in endosomal trafficking [RGD, Feb 2006]