

Product datasheet for MR206025

Vps36 (NM_027338) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps36 (NM_027338) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vps36
Synonyms:	1700010A24Rik; 2210415M20Rik; 2810408E15Rik; Eap45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206025 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCGCTTCGTGTGGACCAGCGGCCTCTGGAGATCAACGAGACCCTGGTTATCCAGCAGCGCGGGG
TGCGCGTCTACGACGGCGAGGAGAAGATAAAATTTGATGCCGGGACTCTTCTTCTAGTACACACCGGCT
GATTTGGAGAGACCAGAAGAATAATGAGTGTGCATGGCCATTCCTGTCTCAGATTGTGTTTCATCGAG
GAGCAGGCAGCTGGAATCGGAAGAGCGCAAAATCGTGGTTCACCTGCACCCAGCTCCTCTAACAAAG
AGCCCGTCCGTTCCAGAGCAGTAAGAAGTCTACATCAGACTCTCTTCAAAGAACATGGCCAGATTGA
GTTTTACAGCGTATCAGAAGAAATGACACAGAGAAGATGGGAGACTGTGCCAGTTTCCAGTCACTA
CAAACAAATAAAGGACCCAGCCAGGAAGAGTAAGAGCTGTTGGAATTGTAGGTATTGAAAGGAACTTG
AAGAAAAAGAAAAGAAACCGATAAAAACATTTCTGAGGCCTTTGAGACCTGAGCAAGCTGATGATTAA
GGCTAAGGAAATGGTGGAGTTATCCAAATCAATCGCTAATAAGATTAAAGAGAAGCAAGGCGATGTCACA
GAGGATGAGACCATCAGTTTAAGTCGTACCTGCTGAGTATGGGAATAGCCAACCCAGTCAACAGAGAAA
CCTATGGCTCCGGCACACAGTACCACATGCAGCTGGCCAAACAGCTGGCTGGAATATTGCAGGCACCTT
GGAGGAGCGTGGGGAATAATGTCCCTCACAGAGGTGTACTGTCTAGTGAACCGGGCCCGAGGAATGGAG
TTGCTCTCGCCAGAAGATTTGGTAAATGCGTGCAAGATGCTGGAAGCGCTAAAATTCCTATCAGGCTTC
GGTTTTTTGACAGTGGTGTCTGTAATTGAGCTTCAAACCTACAAGGAAGAGGAATGGTGGCCTCGGC
CCTGGAGACGGTTTCAGAAAGGGGTCCTTAACATCCGAAGATTTGCCAAGCTTGTGGGAATGTCTGTC
CTTCTGGCTAAAGAAAGGCTGCTCCTTGACAGAGAAGATGGGCCACCTTTCGCCAGACGACTCCGTGGAAG
GCTTGGGTTTTATCCAAATTTATTTATGACACAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206025 protein sequence
Red=Cloning site Green=Tags(s)

MDRFVWTSGLLEINETLVIQQRGVRVYDGEEKIKFDAGTLLLSTHRLIWRDQKNECCMAIPLSQIVFIE
 EQAAGIGKSAKIVVHLHPAPSNKEPQPFQSSKNSYIRLSFKEHGQIEFYRRLSEEMTQRRWETVPVSQSL
 QTNKGPPGRVRAVGIVGIERKLEEKRETDKNI SEAFEDLSKLMIKAKEMVELSKSIANKIKEKQGDVT
 EDETIRFKSYLLSMGIANPVTRRETYGSGTQYHMLAKQLAGILQAPLEERGGIMSLTEVYCLVNRARGME
 LLSPEDLVNACKMLEALKLPIRLRVFDSGVMVIELQTHKEEMVSALETVSEKSLTSEEFAKLVGMSV
 LLAKERLLLAEKMGHLCRDSDVEGLRFYPNLFMTQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027338

ORF Size: 1161 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:

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_027338.2](#)

RefSeq Size: 1290 bp

RefSeq ORF: 1161 bp

Locus ID: 70160

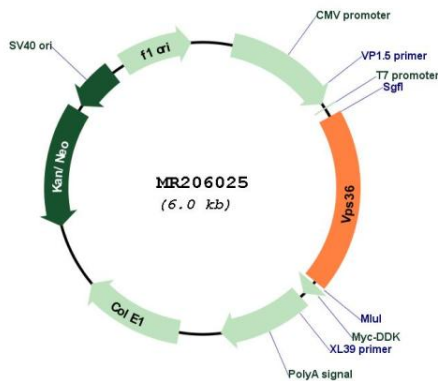
UniProt ID: [Q91XD6](#)

Cytogenetics: 8 A2

MW: 43.7 kDa

Gene Summary: Component of the ESCRT-II complex (endosomal sorting complex required for transport II), which is required for multivesicular body (MVB) formation and sorting of endosomal cargo proteins into MVBs. The MVB pathway mediates delivery of transmembrane proteins into the lumen of the lysosome for degradation. The ESCRT-II complex is probably involved in the recruitment of the ESCRT-III complex. Its ability to bind ubiquitin probably plays a role in endosomal sorting of ubiquitinated cargo proteins by ESCRT complexes. The ESCRT-II complex may also play a role in transcription regulation, possibly via its interaction with ELL. Binds phosphoinositides such as PtdIns(3,4,5)P3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206025