

Product datasheet for **MC215773**

Vps4b (NM_009190) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps4b (NM_009190) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps4b
Synonyms:	8030489C12Rik; Skd1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215773 representing NM_009190
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCGTCCACGAACACCAACCTGCAGAAAGCAATAGATCTTGCAAGCAAAGCAGCCAGGAAGACAAG
CTGGAACTATGAGGAAGCTCTTCAACTCTACCAACATGCTGTGCAGTATTTTCTCCATGTTGTTAAATA
TGAAGCACAAGGTGATAAAGCCAAGCAAAGTATCAGGGCCAAGTGTACAGAATATCTCGATAGAGCAGAA
AACTAAAGGAATATCTGAAGAAAAAGGAGAAGAAACCACAGAAGCCTGTGAAAGAGGAACAGTCAGGCC
CAGTTGATGAGAAGGGGAATGACAGTGTGGGGAAGCAGAATCTGATGATCCTGAAAAAAGAACTGCA
GAATCAACTTCAAGGTGCCATTGTTATAGAGCGACCAAATGTGAAGTGGAGTGTGTTGCTGGTCTCGAA
GGAGCCAAAGAAGCTCTTAAAGAGGCTGTGATTCTGCCTATTAAGTTTCCTCATCTGTTTACAGGAAAGC
GGACACCTTGAGAGGAATCCTATTATTTGGACCACCAGGAACAGGAAAACTTATTTGGCTAAAGCTGT
TGCAACGGAAGCAAACAACCTCAACATTTTTCTCAATATCTTCTCTGACCTTGTGTCTAAGTGGCTGGGG
GAAAGCGAAAACTGGTTAAGAAGCTTATCCAGCTTGCCAGAGAGAACAAGCCTTCTATCATCTTATCG
ATGAGATTGATTCTGTGTGGTTCCAGAAGTGAGAATGAGAGCGAGGCTGCACGGAGAATTAAGACGGA
GTTCTGGTTCAAATGCAAGGAGTTGGTGTGGACAATGATGGCATTGTTGTTCTGGGAGCTACAAATATA
CCCTGGTTCTGGATTCTGCAATTAGGCGAAGATTTGAGAAACGTATTTATATTCCTTTGCCGAAGCCC
ATGCCCGAGCAGCCATGTTTAGACTGCACTTGGGCAGCACTCAGAACAGCCTCACAGAAGCAGACTTCCA
AGAAGTGGGAGGAAGACGGATGGCTATTCAGGAGCAGATATAAGTATCATTGTACGGGATGCACCTATG
CAGCCTGTGAGAAAAGTTCAGTCAGTACTCACTTCAAAAAGGTTTCGAGGACCCTCAAGAGCTGATCCTA
ACTGCATTGTAATGACCTGCTGACACCCTGCTCCGGGAGACCCTGGGGCTATTGAAATGACATGGAT
GGATGTTCTGGAGATAAAGCTTGGAGCCAGTTGTTTCCATGTGGGATATGCTGCGGTCCCTGTCCAGC
ACAAAGCCAACAGTCAATGAGCAGGACTTGTGAAGCTGAAGAAGTTTACAGAAGATTTGGCCAGGAAG
GCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_009190

Insert Size: 1335 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:

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_009190.2](#), [NP_033216.2](#)

RefSeq Size: 3272 bp

RefSeq ORF: 1335 bp

Locus ID: 20479

UniProt ID: [P46467](#)

Cytogenetics: 1 E2.1

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. VPS4A/B are required for the exosomal release of SDCBP, CD63 and syndecan (By similarity).[UniProtKB/Swiss-Prot Function]