

## Product datasheet for **MC219766**

### Vps33b (NM\_178070) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vps33b (NM_178070) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps33b
Synonyms:	MGC36556
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219766 representing NM\_178070  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTTTTCCCATCGGCTGGACGCCCTGAGCTTCCGACTTCTCTATGCTCAAGAGGCTGGCTCGGG  
 ACCAGCTCATCTATCTGCTAGAACAGCTTCTGGAAAAAGGATTTGTTCAATTGAGGCAGATCTCATGAG  
 CCTTTGGATCGAATTGCTAACGCTCTATCCTGAAGCAACATGAAGTGACAAGCTGTACAAGGTGGAG  
 AACAACTGCCCTCAGCGCCAATGAACAAGTGTCTTGGTTCAGACCTCGAATCAAGAATATGCGCT  
 ACATTGCCAGTCTGTCAATGCTGACAAGCTGGCTGGCAGAATTAGAAAAACAAAGTATCCTAAGCCC  
 TCAGAAGTTTTATGCATGTGAGATGGTCTTGGGAAGAGGGAGTCTATGGAGATGTGAGCTGTGATGAG  
 TGGGCTTTTCTGCTGCCTTTGATGTCGATCTGCTGAGCATGGAAGTCCAGAAATTTTCAGGGATT  
 ACTTCTGGAAGGTGATCAGCGTTGGATCAACTGTGGCTCAGGCCTTACACCTTCTCAGTACTCTCTA  
 TGGGCCCTTCTAACTGCTATGGCATTGGCAGATGTGCAAAGATGTCATATGACCTGTGGAGGAACTG  
 GAGGAGGAAGAAGACAGTGAAACCAAAGGTCGGAACCCAGAGATTGGACACATCTTCTCCTGGACAGAG  
 ATGTGGACTTTGTGACAGCACTTGTCTCCAAGTGGTTTACGAGGGCTTGGTAGATGACACCTTCCGAAT  
 CAAGTGTGGAAGTGTGACTTTGGCCAGAAAGTCAATCCTCTGACAAGAGCCTGAAGGTGCTACTCAAC  
 GCTGAGGACAAGGTGTTCAAGTGTGAGATCCGCAATGAGCACTTCTCCAATGTCTTTGGCTTCTTGGCCAGA  
 AGGCCCGAACTGCAGGCCAATATGACCGCCGAGAGGCATGGACATAAAGCAGATGAAGAATTCGT  
 GTCGAAAGAGCTCAAGGGACTGAAGCAGGAGCACCGCCTTCTGAGTCTCCATATTGGGGCTTGTGAATCA  
 ATCATGAAGAAGAAAACCAAGCAGGACTTCCAGGAGCTAATCAAGACCGAGCATGCGCTGCTGGAGGCT  
 TCAACTCCGAGAGAGCACTAGCTACATTGAAGAGCACATAGACCGCAGGTGTGCCCCATAGAGAGCCT  
 ACGCCTCATGTGCCTTTTGTCCATCACTGAGAATGGTTTGATACCCAAGGATTATCGGTCCCTGAAAACA  
 CAGTATCTGCAGAGCTATGGCCCGAGCACCTGTAACTTCTCCAACCTGCGGAGAGCCGGCTTCTAA  
 CAGAGCAGGCTCCTGGGACACCCTCACAGCAGTAGAGAGTAAAGTGAAGCAAGCTGGTACGCGACAAGGC  
 TGCAGGGAAAACTACTGACGCCTTCACTTCTGCGCAAGAGGAGCAATTTCTGTCATCAGCAAAAAAG  
 CTGAATTTGATCCACGTGTAGATGGGGAGTATGACCTGAAAGTGCAGGAGACATGGCTTATGTCTTCA  
 GTGGTGCCTATGTGCCTCTGAGCTGCCGAATCATTGAGCAGGTGCTGGACCGCGGAGTTGGCAGGGCT  
 TGATGAAGTGGTACGGCTGCTAACTGCAGTGAAGTTGCATTACAGACACGGCTAAGGAAGACAAGGCT  
 TCCAGTGAGTCACTGCGCCTCATCTTGGTGGTGTCTGGGGGGCTGCAGTTCTCAGAGATATCAGCCC  
 TGCCTTCTGGGTAGAGAGAAAGGGTACAGATTTATTTTCTGACAACCTGCTGTTACAAACAGTGTCTG  
 CCTCATGGAAGCCATGAGTGAGGTGAAATCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_178070

**Insert Size:** 1854 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\\_178070.4](#), [NP\\_835171.2](#)

**RefSeq Size:** 2595 bp

**RefSeq ORF:** 1854 bp

**Locus ID:** 233405

**UniProt ID:** [P59016](#)

**Cytogenetics:** 7 D2

**Gene Summary:** May play a role in vesicle-mediated protein trafficking to lysosomal compartments and in membrane docking/fusion reactions of late endosomes/lysosomes. Mediates phagolysosomal fusion in macrophages. Proposed to be involved in endosomal maturation implicating in part VIPAS39 (By similarity). In epithelial cells, the VPS33B:VIPAS39 complex may play a role in the apical RAB11A-dependent recycling pathway and in the maintenance of the apical-basolateral polarity (PubMed:20190753). Seems to be involved in the sorting of specific cargos from the trans-Golgi network to alpha-granule-destined multivesicular bodies (MVBs) promoting MVBs maturation in megakaryocytes (PubMed:25947942).[UniProtKB/Swiss-Prot Function]