

## Product datasheet for **MC202637**

### Vps26b (NM\_178027) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vps26b (NM\_178027) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Vps26b  
**Synonyms:** 1810012I05Rik; 2310075A12Rik; AI848392  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC062972 sequence for NM\_178027  
CGGTGCGTTACGCCGCGGAGTCCAGGCAGTTCTGTGTGTGCGGCTGGGCGCTGGACCCACCCGGTGGG  
CGACGAGACGCGGTGCTTGGCGCTTTCTCCAGGGCCCTAGTCGCTGCACCGCCAGGATCTGCGTTG  
GTACTGTGTCTGGCCTCTCGGTGCATCGCTGCTCTGGGCGCCGCAACCCGAGCCGACCTCTTCTCCG  
CCCTGCCTCACCCAGGGGCGCAGGCCATCGGCGATCGCCACCCGCCAGCTCAGAGCGAGCGGGGCTGC  
GGTGCAGCGTCCAGCGCTTCCCGCAGCCGGCCCTCCGGCCTGCCTTCCCGAAGGCAGCTCGCGCTGG  
GAGGGAGGGAGCAGTCTGTGCCGACACCGGCGCGCCAGGCGGGAGATGAGCTTCTTGGCTTCCGGCA  
GAGCGTGGAGGTGAAATCTTGTGAATGATGCGGAGAGTAGGAAGCGAGCGGAGCACAAGACTGAGGAC  
GGGAAGAAGGAGAAATTTCTTCTACGACGGGAAACCGTCTCGGGAAAGTGAGCCTATCACTGA  
AGAACCCCAACAAGCGACTAGAGCACCAGGCCATCAAGATCGAGTTCATTGGGCAGATCGAACTCTACTA  
TGACCGTGGGAACCACTGAGTTTGTGTCTTTGGTGAAGGACCTGGCTCGGCCAGGAGATCACCCAA  
TCGCAGGCCTTCGACTTTGAGTTCACCCATGTGAAAAGCCGATGAATCCTACACAGGACAGAATGTGA  
AGCTCCGCTATTTCTTCCGAGCCACCATCAGCCGCGCCTCAATGATGTTGTTAAAGAGATGGACATTGT  
AGTTCACACACTTAGCACATACCCCGAGCTGAACTCATCCATCAAGATGGAAGTTGGCATTGAGGATTGC  
CTGCACATTGAATTTGAGTACAACAAATCCAAATACCCTTGAAGATGTATTGTAGGGAAGATATACT  
TCCTGCTGGTGAGAATCAAGATCAAGCAGATGAGATAGACATCATCAAACGAGAGACAACAGGCACGGG  
TCCCAACGTGTACCACGAGAACGACACAATAGCGAAGTATGAGATCATGGACGGGACCCAGTCCGAGGT  
GAGTCCATCCCCATCAGGCTCTTCTGGCAGGGTATGAGCTCACACCCACCATGCGTGACATAAAATAAGA  
AGTTCTCTGTGCGCTATTACCTCAACTTGGTGTGATAGATGAGGAGGAACGGCGCTACTTCAAGCAGCA  
GGAAGTGGTGTGTGGCGAAGGGTGACATCGTACGGAAGAGCATGTCCACCAGGCAGCCATTGCCTCA  
CAGCGCTTCGAGGGCACAACTCCCTGGGTGAGGTGCGGACCCCTGGCCAACTGTCTGACAACAACAGCA  
GGCAGTAGGCCCTGGGGCCAAGAAGTTGCTGGGCTTCCACCACAGAACCCCATCTGCCGAATACCAGC  
CACTGCGGGAGGGGAGGATGGTGTGAGGTTCAACTGGCTGTTACTTGCAACCTTGGAAACAAATCATGT  
TTTTTACTTAAATTTTTTCTCTGAAGAACCTAAGGGCTTGGGTTGGGCAGCAGTCTCCTCGGGATGCT  
GCAGCCTAGGTAGGATAAAGGAGAGGAAACATTCTGGAAGCTAATCTTCTTGGGAATGAGCTCTGTG  
TCAAGGCTGTCTAAGCCTTAAAGCAGAGTTGAGAGCACACATCCTTGGCTCCAGGTTCTCTGGGCTTCC  
TGATACAGAAGCTGAGTGTGCCCTGGCATTACCTGCCACAGGGCTCTGGGTAGTCGTGCTTATACT



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CCCTGTGACTGTTCTGAGATAGTGACAGAAGGGCCTGTCTCATCTAACTTGAAGAACA
CTCAAGAACAGCAAGAACAG
GAAGCTACCTCTCGGGGTGTCCGGGACGTGGTGTCTCGAGTTTCTACAGTCACTCTGG
CCTCTCACTA
CTGGGACCAGACCCTTCTTCTTTCATCTTCTCTAGCTTGTCAAGAACTATACAGGAGC
AGAAGCTTAAG
GAAGGGTCTGTGTCTGACTCCTTACTTGTGAGAAACAGGCACAGAGAAGCCCTGATTCC
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CACTTGCCTCT
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AGCATGTATAA
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TTTTCTCC
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CTGTCCCTT
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CAGGATATGAG
ACTAGACTCTGCCGTGCCCTCCTTTAATATCTCATTAAAAAGCATTGTCAATTTCTCTGC
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TAGAAGGTAG
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CGTTCTCCTT
TCTCTGCCAAGTGTGAAAGTATGGGAAGGTTCCCATCCCCATCCTTTAAGGTTCCCAAAC
CTGGAGTGCA
TAGGTAATAACCAAGCAGTGAACCTTGAATTAAGAAGCTGCAGTGTTCATATGTTTCTTA
ATGTGTTG
CTTTTTCAATGGCTGTATTTTAAAAAGAACATTTGTTTTAATGATGTCTCTAATTAAGGA
AGCCCTATGG
CTTTGGAGGCATTGTGCCGTGATCCACCAAAAAAAAAAAAAAAAAAAAAA

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**Restriction Sites:**

AscI-NotI

**ACCN:**

NM\_178027

**Insert Size:**

1011 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC062972](#), [AAH62972](#)

**RefSeq Size:** 3547 bp

**RefSeq ORF:** 1011 bp

**Locus ID:** 69091

**UniProt ID:** [Q8C0E2](#)

**Cytogenetics:** 9 A4

**Gene Summary:** Acts as component of the retromer cargo-selective complex (CSC) (PubMed:21040701, PubMed:21920005). The CSC is believed to be the core functional component of retromer or respective retromer complex variants acting to prevent missorting of selected transmembrane cargo proteins into the lysosomal degradation pathway. The recruitment of the CSC to the endosomal membrane involves RAB7A and SNX3. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX3-retromer mediates the retrograde transport of WLS distinct from the SNX-BAR retromer pathway. The SNX27-retromer is believed to be involved in endosome-to-plasma membrane trafficking and recycling of a broad spectrum of cargo proteins. The CSC seems to act as recruitment hub for other proteins, such as the WASH complex and TBC1D5 (By similarity). May be involved in retrograde transport of SORT1 but not of IGF2R (PubMed:21040701). Acts redundantly with VSP26A in SNX-27 mediated endocytic recycling of SLC2A1/GLUT1 (PubMed:25136126).[UniProtKB/Swiss-Prot Function]