

Product datasheet for **MC200883**

Vps26a (NM_133672) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps26a (NM_133672) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps26a
Synonyms:	AA407240; HB58; Vps26
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC007148 sequence for NM_133672
 GGCACCCAGGCTGGGAGTTCTTCTGAGGGAAAGCCGAGTGGAGTGGGCGACCCGGCGCGGTGACAATGA
 GTTTTCTTGGAGGCTTTTTTGGTCCCATTGTGAGATTGATGTTGCCCTTAATGATGGGAAACCAGGAA
 AATGGCAGAAATGAAAACAGGATGGCAAAGTAGAAAAACACTATCTCTTCTATGATGGCGAGTCTGTC
 TCAGGAAAGGTAAACCTAGCCTTTAAGCAGCCTGGAAAGAGGCTAGAGCATCAAGGAATTAGAATTGAAT
 TTGTAGGTCAAATTGAGCTTTTCAATGACAAGAGTAATACTCATGAATTTGTAACCTAGTGAAGGAAT
 AGCCTTGCCTGGAGAAGTACTGACTCAGAGCAGAAGCTATGACTTTGAATTTATGCAAGTTGAAAAGCCATAT
 GAGTCATACATCGGTGCCAATGTCCGCCTGAGGTATTTTCTTAAGGTGACAATTGTGAGAAGATTGACAG
 ACTTAGTGAAAGAGTACGATCTTATTGTTTCATCAGCTAGCCACCTATCCTGATGTCAACCACTCTATTAA
 AATGGAAGTGGGCATTGAAGACTGTCTGCACATAGAGTTTGAATAATAAAGTCCAAGTATCATTAAAG
 GATGTAATTGTTGAAAAATTTACTTCTTATTAGTAAGAATAAAAATACAACACATGGAATTACAGCTGA
 TCAAGAAAGAGATCACAGGAATTGGACCCAGCACCACAACAGAGACAGAAAACAATCGCTAAGTATGAAAT
 AATGGATGGGGCCAGTAAAAGGAGAATCTATTCCGATAAGATTGTTCTTAGCAGGGTATGACCCAACC
 CCCACGATGAGAGATGTGAACAAGAAGTTTTCAGTAAGGTAATTTCTAACCTCGTCTTGTGATGAGG
 AGGACCGAAGGTAATTCAGCAGCAGGAGATCATCCTGTGGAGAAAAGCACCCGAGAAAACAGAGAAAACA
 GAGGACGAACTTTACCAGCGGTTTGAATCTCCAGACTCGCAGGCTCTGCGGAGCAGCCTGAGATGTAA
 GCAGGTGGGCAGAGCAGCAAGTGAAGAACCAGGCAAGAGAGCAGCTCAGCTGGCTGACGACAGTCGCA
 GCGTGGGACATCCCACTCCACGTCTGCTAGTCTTCTTATCCTAGAGTGTGCGTTTATTTTACAGTA
 TGATTAAGGTTTTGTGTATATACATTTTAAAAAGTGCTTCTTGGAAACTGGAGAATTCCTAAGCTGC
 CTTTTTGTCTTTTACTGCACACTGATAAGCACTCAGAAGCATAAACATTAAGGATTTTCATGTG
 AGTAGACTGGTATTTGTAATTTTGTCTTTTATGCATAATGTTGAAAATCCTTTTCTGTCTTTTATGC
 TAATGATTACCTCTTATCTCTATGTGCAAAAAATTAATATTTTGTCAAGTAAAATGAGAAAAACCT
 GAGCAGCCCTTATGTCTACAAAGTTTTAAGGCATGGCTCCTCAGTATTTTGGAGAATTTGTGTTTTATTT
 TACATGTGGATCAGAAACCAACCTGGTGTACATGGTAGGCACTTCTGGGTCTACCATTACAGCCTCCT
 GAATTTTAACTTTGGGATCTCTGAGGTATATGAAAGATTGTACCCAGGGATGACATGGTTTTGCATC
 GTGGCCCTCTGCCCCTATTGACCACGTTTGCTATGACTTTCTGTATCATCATGTAGGTTCTGCAGTGT
 GGAGTTGACACATTGGCATTGTAAGACTGTTAAACCTGTATCATTTTTTTTCCATAAAGACTTTGAAAC
 ATGTATATTTTTTAAATTAAGGACTACTTCCATGTGTATGCAAAATCGTCACCTAGGAATGAGAGAGC
 TTGGGAGAACCAGCCGAAGTGTCCATAGCCGACAATTTCTTGTAACTGGAATATTGGCTAGTTCAAAC
 TTGACTTACGTAGTCTATTTAAAAAACCCGAACCAACAGAACAAAAAACACTAAATTCATACCATT
 TCTGAAAAGAAGGCTGCAGTCAAGTGTGAGCAGACACACAAGTGGCGTATGGGGCAGGAGGAAGCCTG
 TGTGGGGCCACTCTCACTCAGGCTTGTGGTTTCTGTACCAGTGTTCCTTGATACACCTCAGTACAGG
 TTTGTCAAGTAACTTTACTTTCTAGGAAGTCAACAGCCCAACTATGTTTCTTAAACCTATTTTTTAC
 TATGATGGCACTTTGATAAAATGGCCAGCAACCAGCCCTGGCCAAAGGTTACATACCACGCTCTGGAGC
 AGCTATTGTCAATGTGGGTTTCTAAGGACGGCCATGTTCTCCTCATGTAAGTGCCTGTTTCAAGTCTCA
 AAGTTTCAAAATGCCAAATTTTTCATGGTCACTTGCATGTATAATCTAGGAAATATTCAAGGAGATTTT
 GAAAAACAATTGTATTTAACAGCCTCAAGTTGTGCAACCATGATATATAAAATAAATAATTTGAAACAG AAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_133672

Insert Size: 984 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: [BC007148](#), [AAH07148](#)

RefSeq Size: 2535 bp

RefSeq ORF: 984 bp

Locus ID: 30930

UniProt ID: [P40336](#)

Cytogenetics: 10 B4

Gene Summary: Acts as component of the retromer cargo-selective complex (CSC). 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 endosome-to-TGN 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 complex seems to act as recruitment hub for other proteins, such as the WASH complex and TBC1D5 (By similarity). Required for retrograde transport of lysosomal enzyme receptor IGF2R (PubMed:15078902). Required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA). Required for the endosomal localization of WASHC2 (indicative for the WASH complex). Required for the endosomal localization of TBC1D5. Mediates retromer cargo recognition of SORL1 and is involved in trafficking of SORL1 implicated in sorting and processing of APP (By similarity). Involved in retromer-independent lysosomal sorting of F2R. Involved in recycling of ADRB2 (By similarity). Acts redundantly with VSP26B in SNX-27 mediated endocytic recycling of SLC2A1/GLUT1. Enhances the affinity of SNX27 for PDZ-binding motifs in cargo proteins (PubMed:25136126). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes isoform a.