

Product datasheet for **MC206802**

Vps35 (BC005469) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps35 (BC005469) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps35
Synonyms:	A1647796; Mem3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005469
 CCGACGCGTGGGCGGACGCGTGGGCGGGGGTAGGCGCTGCTGCTTGTGGTCCCCGGAGTCGCCATGCC
 TACAACACAGCAGTCACCCCAGGATGAGCAGGAAAACTTTTGGATGAAGCCATCCAGGCTGTGAAGTT
 CAGTCATTCCAGATGAAAAGATGCTGGACAAAAACAAGCTGATGGATGCTCTGAAGCATGCCTCCAATA
 TGCTTGGAGAGCTCCGGACCTCTATGCTGTCACCAAAGAGTTACTATGAACCTTTATATGGCTATTTCTGA
 TGAAGTGCCTACTTGGAGGTCTACCTGACTGATGAATTTGCTAAAGGAAGAAAGGTGGCAGATCTCTAT
 GAACCTGTACAGTACGCGGGAAACATTATCCAAGGCTTTATCTCTTGATCACAGTTGGAGTTGTATATG
 TCAAGTCATTTCCCTCAATCCAGGAAAGATATTTTGAAGATTTGGTAGAAATGTGCCGTGGTGTGCAGCA
 TCCGCTAAGGGTTTGTCTCTCGAAATTACCTCTTCAGTGTACTAGGAACATTTTACCTGATGAAGGA
 GAGCCAACAGATGAAGAAACAACCTGGTATATCAGTGATTCCATGGATTTTGTACTACTCAACTTTGCAG
 AAATGAATAAGCTCTGGGTGCGGATGCAGCATCAAGGACATAGTCGAGATAGAGAAAAAGAGAACGAGA
 GAGACAAGAACTGAGAATTTTAGTGGGAACAAATTTGGTGCCTTAGTCAGTTGGAAAGGTGAAATGTG
 GAACGTTACAAACAGATTGTTCTAACAGGCATTCTGGAGCAGGTTGTGAATGTAGGGATGCTCTGGCTC
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 ACAGTGGAGATATTCAATAAGCTTAACCTTGAACATATTGCTACCAGTAGTGCAGTTTCAAAGGAGCTTA
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 TGGCTTTTCGATACAAAGAGAATCCCAAATGGATGACAAGTGGGAAAAGAAATGCCAGAAGATATTTTC
 ATTTGCTCACCAGACTATCAGTGCTTTGATTAAGCTGAGCTGGCTGAATTACCACTGAGACTTTTTCTT
 CAAGGAGCATTAGCTGCTGGAGAAATGGCTTTGAAAATCATGAAACAGTAGCATATGAATTTATGTCCC
 AGGCATTTTCTATATGAAGATGAAATCAGTGATTCTAAAGCACAGCTGGCTGCTATCACCTTGATCAT
 CGGTACTTTTGGAGGATGAAATGCTTCAGTGAAGAGAATCATGAACCTTGAGAACTCAGTGTGCACTT
 GCTGCATCAAACTTCTGAAAAACCAGATCAAGGCCGAGCCGTGAGCACATGTGCACATCTTTTTGGT
 CTGGCCGAAACACAGACAAAAATGGGGAAGAGCTTCATGGAGGTAAAAGGTCATGGAGTGCCTAAAGAA
 GGCACTAAAAATAGCAAATCAGTGCATGGACCCCTCTCTACAAGTTCAGCTCTTTATAGAGATTCTGAAC
 AGGTACATCTATTTCTATGAAAAAGAAATGATGCGGTAACCATCAAGTCTTGAACCAACTTATTCAAA
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 CACATTGGAGCACTTGCCTCAAGACGGGAATCACCAGAGTCTGAGGGGCCAATCTATGAAGTCTCATC
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 TAGATTGTGCCTTTCAGAAATGCTGAGGTAGGTTTCCCATTCTTACCTGTGATGTGTTTACCCAGCACC
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 CTGATCTGCTCTTAAACTTCTGTGATCCGTGAAAATTGAAAGCAAAACCACTTATTCTGGCTACTAAT
 GGAGCTCTCCTTTCTATTTTTATTTTGTGAATTTGTTGATTGTGATTTTTCTTCATTAATGAGGAATAC
 TAACCCAAACATACTTGTCTCTCGTTCTCTGGTCTATGTGAGATTACTTTAGAGGACAGGAGTACTGT
 GCGTGAAATTCAGCTTGGGCTTTCCCTGAATGCAAGATAAAGCCTATGTGTAATATATCCCTACAAC
 TAATATATTAATGCATGTTGAAGAATTTTAAAGCACCATGGTCCAGAGCAGAAAGTATATTTTGCATATT
 TGGACTCAGCTATCCATTAAGAACTATGCCATCATCTGGATACATCAAAGTAATTTGATTCTATAAAATA
 GAAATTTTGTGACTTAATGTAATTTATGTATAACCTCCACTATTGTAATTTATGTGAAATGCATCACAA
 CTACAACCTTTTTCATCAGTGAATAATAAAGTTGCTGTTAACAAAAA
 AA AAAAA

Restriction Sites: RsrII-NotI
 ACCN: BC005469

Insert Size:	2391 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:	<ol style="list-style-type: none">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:	BC005469 , AAH05469
RefSeq Size:	3295 bp
RefSeq ORF:	2391 bp
Locus ID:	65114
Cytogenetics:	8 41.61 cM
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 CSC seems to associate with the cytoplasmic domain of cargo proteins predominantly via VPS35; however, these interactions seem to be of low affinity and retromer SNX proteins may also contribute to cargo selectivity thus questioning the classical function of the CSC. 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 (Probable). Required for retrograde transport of lysosomal enzyme receptor IGF2R and SLC11A2. Required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA). Required for endosomal localization of WASHC2 and mediates the association of the CSC with the WASH complex (By similarity).[UniProtKB/Swiss-Prot Function]