

Product datasheet for **MC222075**

Vps41 (NM_172120) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vps41 (NM_172120) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Vps41
Synonyms:	A1317346; mVam2; Vam2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222075 representing NM_172120
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAAGCAGAGGAGCAGGAAACCGAGTCTCTTGAAGAATCTACGGATGAGTCAGAGGAAGAAAGTG
 AAGAGGAACCCAACTGAAGTATGAAAGCCTTCCAATGGGGTGACAGAGATTCTTCAGAAGGATGCAGC
 AAGCTGTATGACGGTCCATGACAAGTTTTTGGCACTGGGAACACATTATGGCAAGTTTTATTACTTGAT
 GTCCAGGGAAACATCACTCAGAAGTTTGTGTAAGTCCTGTGAAGATAAACCAAATTAGCTTGGATGACA
 GTGGAGAACACATGGGAGTGTGTTAGAGGATGGCAAGCTGCAGGCTTTGGGCTGTATTCTGGAGAAGA
 ATTTACAGAGACTTTGACTGTCCATTAAAATCATTGCTGTGCACCCACAGTTCGTGAGATCCAGTTGT
 AAGCAGTTGTGACTGGCGGAAAAAGCTGCTGCTGTTTGAACGGACCTGGATGAACAGATGGAAGTCTT
 CTGTGCTACACGAAGGGGAAGGAAACATAAAGGAGTGTGAAGTGGAGAGGCCATCTGATTGCTTGGCCAA
 CAATATGGGTGTGAAGGTTTTGACATCACCTCAAAGCAAAGAATCAGCAATGTGCCCGAGATGACATA
 AGTCTTCGCCAGACATGTACCCCTGCAGCCTCTGCTGGAAGGACAATGTGACACTCATTATTGGCTGGG
 GAACCTCCATCAAGATATGCTCAGTGAAGGAACGCCACGCCAGTGAAGTGAAGGATCTGCCAAGCCGATA
 TGTGAGATAGTGTCTCAGTTTGAAGTGAATTCTACATTAGTGGACTTGCACCTCTCTGTGATCAGCTT
 GTTGTACTTTCTACGTAAGGAGGTTTCAGAAAAACGGAAAGAGAATACTGTGCAAGACCTAGACTGG
 ACATCATCCAGCCACTCCGGGAGACTTGTGAAGAGATCTCCTCCGATGCTTTGACAGTCAGAGGCTTTCA
 GGAGAATGAATGTAGGGATTACCACTTAGAATACTCCGAGGGGAATCACTCTTCTATGTCGTGAGTCCA
 AGAGATGTCGTCGTAGCCAAGGAACGAGACCAGGATGATCACATCGATTGGCTCCTTGAGAAGAAGAAAT
 ATGAAGAAGCTTTGATGGCTGCTGAAATTAGCCAAAGGAACATTAAACGACATAAGATTCTGGATTGG
 GTTGGCATAATGTAACCACCTGGTGGAGAGAGGAGTACGACATGGCTGCAAGAAAAATGCCAGAAAAAT
 CTTGGGAAAAATGCATCCCTCTGGGAATACGAAGTTTACAAATTTAAAGAAATGGGCAGCTTAAAGCAA
 TTAGTCCCTATTTACCTCGAGGGGACCCAGTCTGAAACCACTCATCTATGAAATGATTTGACACGAATT
 TCTGGAAAGTGACTATGAGGGCTTTGCCACATTGATCAGAGAGTGGCCTGGAGATCTATATAACAATTC
 GTGATAGTTCAGGCAGTTCGAGACCACCTGAAGAAGGACAGTCAGAACAAAACGTTATTGAAAACACTGG
 CAGAATGTACACCTATGACAAAAATTATGGCAATGCTCTGGAATATACTTAACGTTAAGACATAAAGA
 TGTTTTCCAAGTATACACAAGCATAATCTTTTCAGCTCCATCAAGGATAAAAATTTGTTTAAATGGAT
 TTTGATTCAGAGAAAGCTGTTGACATGCTTTTGGACAATGAAGATAAAAATTTCAATTAAGAAAGTGGTAG
 AAGAATTAAGAAGACAGACCAGAAGTGCAGCATGTGATTTGCACAAGCTCTCAAGAGAGACCATCATAA
 GGGACAGCGCTACCATGAAAAGCAGATCAGTCTGTATGCCGAGTATGACCGACCAAACTGCTTCCCTTT
 CTCCGAGACAGTACCCATTGCCCACTTGAAGGCACTTGAAGTCTGTCAACAAAGAACTTTGTAGAAG
 AGACAGTTACCTTCTGAGCCGAATGGGAAACAGTAGAAGTGCCTCAAGATGATTATGGAGGAATTGCA
 TGATGTTGATAAAGCAATTGAGTTTGCCAAGGAACAAGATGATGGAGAGCTCTGGGAAGATCTGATTCTA
 TACTCCATCGACAAACCACCTTATCACTGGCTTGTGAACAACATTGGCACACATGTGGACCCGATTC
 TACTTATCCACCGAATTAAGGAAGGAATGGAGATCCCAATTTGAGAGATTCCTTGGTAAAAATCTGCA
 AGATTAACTTGACAGATTCTGCTTCGAGAAGGCTGCAAGAAAAATCCTCGTAGCTGACTCATTGTCTGTG
 CTGAAAAAAATGCACCGAACCCAAATGAAAGGCGTTCTGGTTGATGAAGAGAAATCTGTGAAATCATGCC
 TTTCTCCATCCTCCCAACAGATGCAGCGAAGCCCTTCAGCGTGGTGGTCTTCCACTGCCGACATGTT
 CCACAAGGAGTGCCTGCCTATGCCGAGCATGAATGCTCCTGCACAATACTGCAACATCTGTAGTCTAAG
 AACCGTGGCCTGGAAGTGCCATCCTGGAGATGAAGAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_172120
Insert Size: 2562 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:	NM_172120.4 , NP_742118.3
RefSeq Size:	3212 bp
RefSeq ORF:	2562 bp
Locus ID:	218035
UniProt ID:	Q5KU39
Cytogenetics:	13 6.75 cM
Gene Summary:	Plays a role in vesicle-mediated protein trafficking to lysosomal compartments including the endocytic membrane transport and autophagic pathways. Believed to act in part as a core component of the putative HOPS endosomal tethering complex is proposed to be involved in the Rab5-to-Rab7 endosome conversion probably implicating MON1A/B, and via binding SNAREs and SNARE complexes to mediate tethering and docking events during SNARE-mediated membrane fusion. The HOPS complex is proposed to be recruited to Rab7 on the late endosomal membrane and to regulate late endocytic, phagocytic and autophagic traffic towards lysosomes. Involved in homotypic vesicle fusions between late endosomes and in heterotypic fusions between late endosomes and lysosomes implicated in degradation of endocytosed cargo. Required for fusion of autophagosomes with lysosomes. May link the HOPS complex to endosomal Rab7 via its association with RILP and to lysosomal membranes via its association with ARL8B, suggesting that these interactions may bring the compartments to close proximity for fusion. Involved in the direct trans-Golgi network to late endosomes transport of lysosomal membrane proteins independently of HOPS. Involved in sorting to the regulated secretory pathway presumably implicating the AP-3 adaptor complex. May play a role in HOPS-independent function in the regulated secretory pathway (By similarity). [UniProtKB/Swiss-Prot Function]