

Product datasheet for MC204264

Vamp8 (NM_016794) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vamp8 (NM_016794) Mouse Untagged Clone
Tag: Tag Free
Symbol: Vamp8
Synonyms: AU041171; Edb; endobrevin
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC012668
 CCACGCGTCCGGGAGGCGGGCTGAAAGTTGGAGTAAGCAGGAAGTGAAGCTGTGGCTGCCTTGGGTGGAA
 ACAGACTAGGCGAAGTTCTGCTTTGAGAGGCCCAAGTGCTCCGAGACATGGAGGAGGCCAGTGGGAGTG
 CGGAAATGACCGAGTTAGGAACCTGCAGAGTGAGGTGGAGGGAGTCAAGAATATTATGACCCAGAATGTG
 GAGCGGATCTTGCCAGAGGGGAGAACCTGGACCCTCCGAAACAAGACAGAGGACTTGAAGCCACGT
 CTGAACACTTCAAGACAACGTCCAGAAGGTGGCCCGAAGTTCTGGTGAAGAATGTGAAGATGATTGT
 CATCATCTGTGTGATTGCTTATCATCGTCATCCTCATTATACTTTTGCCACTGGTACCATCCCCACT
 TAAGAGTCCCTTCCATCCCACCCTACTCCTCAGGGGTGACCTCCCTAATATGTGCCAAGAGGAGCCCTCT
 CCTGTCTCCTCCACCAAGTGCTGCTCAGTCCCTGTGAGGGCCTTCTGCTGCATCAGATGCCCCAGACG
 CACCTTGATCCCCTGGGAGGAGACAGCTGGACTGTAGCTGCATCTCATGGTCCTGAGAGTGGTTACAGA
 GACCCAGAGGACCCTGTCTGTGGCTGGGAACTGTTGGTGGCTGGTGGGCAATAAAGACCTCTTGGTATC
 CTAAGTGTA

Restriction Sites: RsrII-NotI

ACCN: NM_016794

Insert Size: 306 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).



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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC012668](#), [AAH12668](#)

RefSeq Size: 730 bp

RefSeq ORF: 306 bp

Locus ID: 22320

UniProt ID: [O70404](#)

Cytogenetics: 6 32.27 cM

Gene Summary: SNAREs, soluble N-ethylmaleimide-sensitive factor-attachment protein receptors, are essential proteins for fusion of cellular membranes. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four alpha-helical bundle that drives membrane fusion. VAMP8 is a SNARE involved in autophagy through the direct control of autophagosome membrane fusion with the lysosome membrane via its interaction with the STX17-SNAP29 binary t-SNARE complex (By similarity). Also required for dense-granule secretion in platelets (By similarity). Plays also a role in regulated enzyme secretion in pancreatic acinar cells (PubMed:15363411). Involved in the abscission of the midbody during cell division, which leads to completely separate daughter cells (By similarity). Involved in the homotypic fusion of early and late endosomes (By similarity).[UniProtKB/Swiss-Prot Function]