

Product datasheet for **MG200318**

Vamp8 (NM_016794) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vamp8 (NM_016794) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Vamp8
Synonyms: AU041171; Edb; endobrevin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200318 representing NM_016794
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGGCCAGTGGGAGTGCCGAAATGACCGAGTTAGGAACCTGCAGAGTGAGGTGGAGGGAGTCA
AGAATATTATGACCCAGAATGTGGAGCGGATCTTGCCAGAGGGGAGAACCTGGACCACCTCCGAAACAA
GACAGAGGACTTGAAGCCACGTCTGAACACTTCAAGACAACGTCCAGAAGGTGCCCGGAAGTTCTGG
TGAAGAATGTGAAGATGATTGCATCATCTGTGTGATTGTCCTATCATCGTCATCCTCATTATACTTT
TTGCCACTGGTACCATCCCCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200318 representing NM_016794
Red=Cloning site Green=Tags(s)
MEEASGSAGNDRVRLQSEVEGVKNIMTQNVERILARGENLDHLRNKTEDLEATSEHFKTTSQKVARKFW
WKNVKMIVIIICVIVLIIIVILILFATGTIPT

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

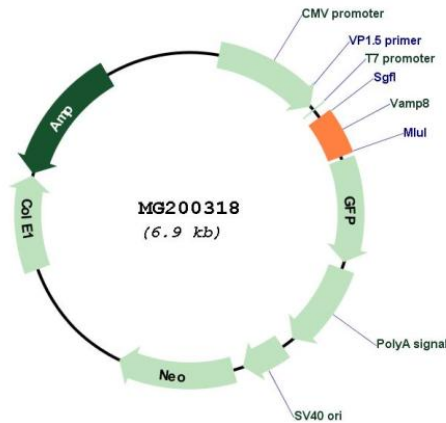


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Cloning Scheme:



Plasmid Map:



ACCN: NM_016794

ORF Size: 303 bp

OTI Disclaimer: 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](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_016794.3
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]