

Product datasheet for MR228327

Vamp7 (NM_001302138) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vamp7 (NM_001302138) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Vamp7
Synonyms: Syb1; TI-VAMP; VAMP-7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228327 representing NM_001302138
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTGGTGTGGAGGAACTTCCTGGAGTTATTTGTTTCATTACATCTGCCAAGACAGGATTGTGTATC
TTTGTACTACTGATGATGATTTTGAGCGTTCTCGAGCGTTCAGTTTTTGAATGAAGTAAGAAGAGATT
CCAGACAACCTACGGTTCAGAGCACAACTGCACTTCCTTATGCTATGAATAGCGAGTTTTCAAGTGTT
TTGGCTGCACAACCTGAAGCATCACTCTGAGAATAAGAGCCTAGACAAAGTGATGGAGACTCAAGCACAAG
TGGATGAACCTGAAAGGAATAATGGTCAGAAACATAGATTTAGTTGCTCAACGTGGAGAAAGTTGGAATT
GCTGATAGATAAAACAGAAAACCTTGTGGATTCATCTGTCACTTTCAAACCTACCAGCAGAAATCTTGCT
CGAGCCATGTGTATGAAGAATATCAAGCTCACTATCATCATCATTGTATCAATTGTGTTTCATCTATA
TCATTGTGTCACCTTCTCTGTGGTGGTTTACATGGCCAACTGTGTGAAGAAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

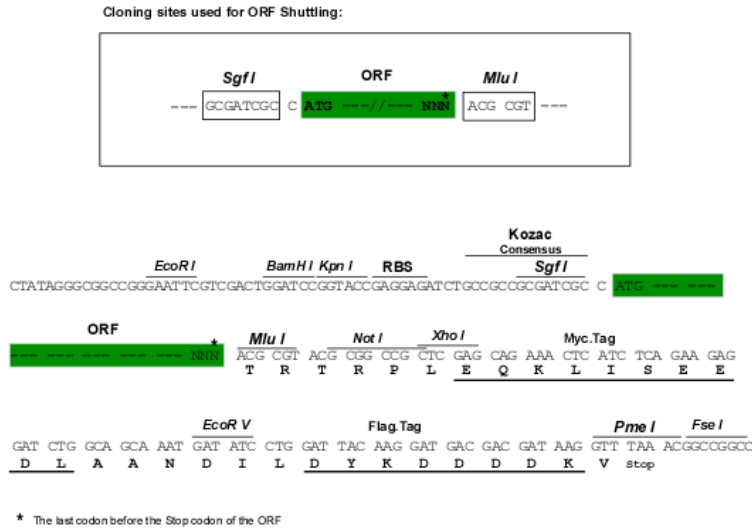
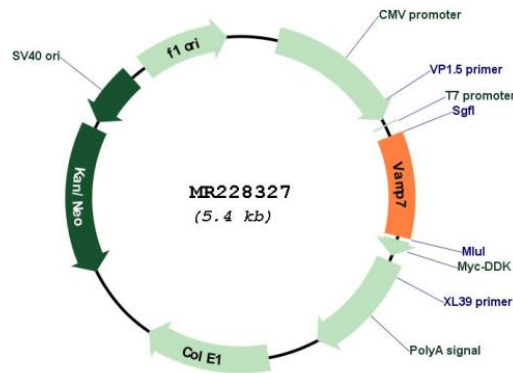
Protein Sequence: >MR228327 representing NM_001302138
Red=Cloning site Green=Tags(s)

MLGVEETSWSYLFHYICQDRIVYLCITDDDFERSRAFSFLNEVKKRFQTTYGSRAQTALPYAMNSEFSSV
LAAQLKHHSENKSLDKVMETQAQVDELKGMVRNIDLVAQRGERLELLIDKTENLVDSVTFKTTSRNLA
RAMCMKNIKLTIIIIIVSIVFIYIIVSLLCGGFTWPNCVKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001302138

ORF Size: 543 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:	<u>NM_001302138.1</u> , <u>NP_001289067.1</u>
RefSeq Size:	2530 bp
RefSeq ORF:	546 bp
Locus ID:	20955
UniProt ID:	<u>P70280</u>
Cytogenetics:	X
MW:	21.2 kDa
Gene Summary:	Involved in the targeting and/or fusion of transport vesicles to their target membrane during transport of proteins from the early endosome to the lysosome. Required for heterotypic fusion of late endosomes with lysosomes and homotypic lysosomal fusion. Required for calcium regulated lysosomal exocytosis. Involved in the export of chylomicrons from the endoplasmic reticulum to the cis Golgi. Required for exocytosis of mediators during eosinophil and neutrophil degranulation, and target cell killing by natural killer cells. Required for focal exocytosis of late endocytic vesicles during phagosome formation.[UniProtKB/Swiss-Prot Function]