

Product datasheet for **MG222072**

Vamp4 (NM_016796) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vamp4 (NM_016796) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Vamp4
Synonyms: D1Erttd147e; Vamp-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222072 representing NM_016796
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCCCAAGTTCAAGCGCCACCTAAATGATGATGACGTGACCGGGTCTGTGAAAAGTGAGAGGAGAA
 ATCTTTTGAAGATGATTCAGATGAAGAAGAGGACTTTTTTCTACGGGGACCATCTGGACCAAGATTTGG
 ACCTAGAAATGATAAAATTAAGCATGTTTCAAGATCAGGTGGATGAAGTTATTGATGTAATGCAAGAGAAT
 ATTACAAAGGTAATTGAAAGAGGAGAGAGGCTGGATGAACTACAGGACAAATCAGAAAGCTTATCGGATA
 ATGCCACCGCTTTCAGCAACAGATCCAAACAGCTTCGAAGGCAAATGTGGTGGCGTGGATGCAAAATAAA
 AGCCATCATGGCTTTGGCTGCAGCGATCCTTTTGCTAATGATTATCACTCAGATCATCTGCACTTGAAA
 AAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222072 representing NM_016796
 Red=Cloning site Green=Tags(s)

MPPKFKRHLNDDVVTGSVKERRNLLLEDDSDDEEDFFLRGPGSPRFGPRNDKIKHVQNQVDEVIDVMQEN
 ITKVIERGERLDELQDKSESLSDNATAFNSRSKQLRRQMWWRGCKIKAIMALAAAILLLMIITQIILHLK
 K

TRTRPLE - GFP Tag - V

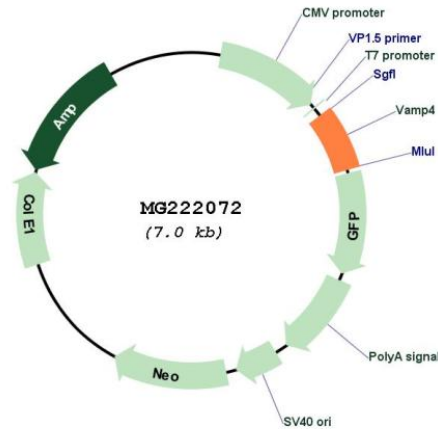
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_016796

ORF Size: 423 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_016796.3, NP_058076.2</u>
RefSeq Size:	2532 bp
RefSeq ORF:	426 bp
Locus ID:	53330
Cytogenetics:	1 70.29 cM
Gene Summary:	Involved in the pathway that functions to remove an inhibitor (probably synaptotagmin-4) of calcium-triggered exocytosis during the maturation of secretory granules. May be a marker for this sorting pathway that is critical for remodeling the secretory response of granule (By similarity).[UniProtKB/Swiss-Prot Function]