

Product datasheet for **RC204973**

VAMP5 (NM_006634) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VAMP5 (NM_006634) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: VAMP5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC204973 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGAATAGAGTTGGAGCGGTGCCAGCAGCAGGCCGAACGAGGTGACGGAAATTATGCGTAACAAC
TCGGCAAGGTCTGGAGCGTGGTGTGAAGCTGGCCGAACGCAGCAGCGTTCAGACCAACTCCTGGATAT
GAGCTCAACCTTCAACAAGACTACACAGAACCTGGCCAGAAGAAGTCTGGGAGAACATCCGTTACCGG
ATCTGCGTGGGGCTGGTGGTGGTGTCTGCTCATCATCCTGATTGTGCTGCTGGTCGTCCTTCTCC
CTCAGAGCAGTGACAGCAGTAGTGCCCCACGGACCCAGGATGCAGGCATTGCCTCAGGGCCTGGGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204973 protein sequence
Red=Cloning site Green=Tags(s)
MAGIELERCQQANEVTEIMRNNGKVLKLAELQQRSDQLLDMSSTFNKTTQNLAQKCKWENIRYR
ICVGLVYVGVLLIILIVLLVVFLLPQSSDSSAPRTQDAGIASGPGN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6439_g05.zip

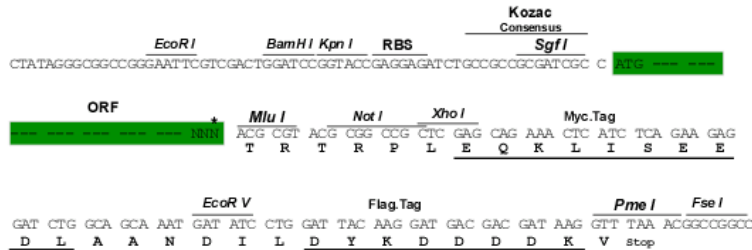
Restriction Sites: SgfI-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_006634

ORF Size: 348 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:
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: [NM_006634.3](#)

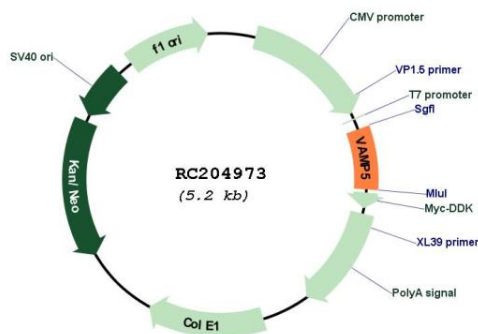
RefSeq Size: 694 bp

RefSeq ORF: 351 bp
Locus ID: 10791
UniProt ID: [O95183](#)
Cytogenetics: 2p11.2
Protein Families: Transmembrane
Protein Pathways: SNARE interactions in vesicular transport

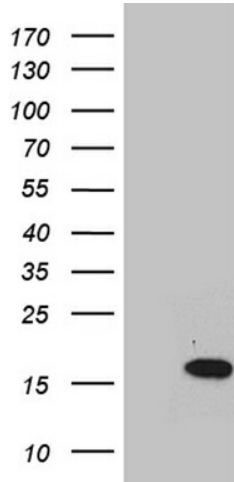
MW: 12.8 kDa

Gene Summary: Synaptobrevins/VAMPs, syntaxins, and the 25-kD synaptosomal-associated protein are the main components of a protein complex involved in the docking and/or fusion of vesicles and cell membranes. The VAMP5 gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family and the SNARE superfamily. This VAMP family member may participate in vesicle trafficking events that are associated with myogenesis. [provided by RefSeq, Jul 2008]

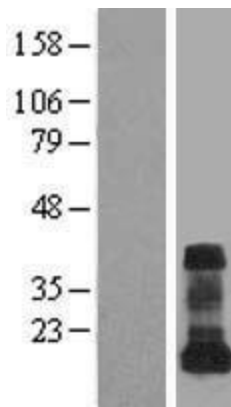
Product images:



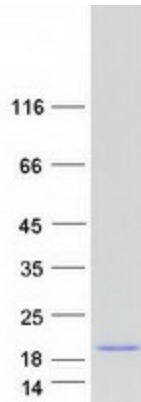
Circular map for RC204973



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VAMP5 (Cat# RC204973, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-VAMP5(Cat# [TA808605]). Positive lysates [LY416522] (100ug) and [LC416522] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY416522]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204973 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VAMP5 protein (Cat# [TP304973]). The protein was produced from HEK293T cells transfected with VAMP5 cDNA clone (Cat# RC204973) using MegaTran 2.0 (Cat# [TT210002]).