

Product datasheet for RC201172

VTI1B (NM_006370) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VTI1B (NM_006370) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VTI1B
Synonyms:	v-SNARE; VTI1; VTI1-LIKE; vti1-rp1; VTI1L; VTI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201172 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGCCTCCTCCGCCCTCCTCGGAGCATTCGAGAAGCTGCACGAGATCTCCGCGCCTCCATGAAGACCTACAAGGGGTGCCCGAGCGGCTGCTGGGGACGGCGGGGACCGAAGAAAAGAAGAAATTGATCAGGGA
TTTTGATGAAAAGCAACAGGAAGCAAATGAAACGCTGGCAGAGATGGAGGAGGAGCTACGTTATGCACCCCTGTCTTTCCGAAACCCATGATGTCTAAGCTTCGAAACTACCGGAAGGACCTTGCTAAACTCCATCGGGAGGTGAGAAGCACACCTTTGACAGCCACACCTGGAGGCCGAGGAGACATGAAATATGGCATATATGCTGTAGAGAATGAGCATATGAATCGGCTACAGTCTCAAAGGGCAATGCTTCTGCAGGGCACTGAAAGCCTGAACCGGGCCACCCAAAGTATTGAACGTTCTCATCGGATTGCCACAGAGACTGACCAGATTGGCTCAGAAATCATAGAAGAGCTGGGGGAACAACGAGACCAGTTAGAACGTACCAAGAGTAGACTGGTAAACACAAGTGAAAACTTGAGCAAAAGTCGGAAGATTCTCCGTTCAATGTCCAGAAAAGTGACAACCAACAAGCTGCTGCTTTCCATTATCATCTTACTGGAGCTCGCCATCCTGGGAGGCTGGTTTACTACAAATTCTTTCGACGCCAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201172 protein sequence
Red=Cloning site Green=Tags(s)

MASSAASSEHFEKLHEIFRGLHEDLQGVPERLLGTAGTEEKKLIRDFDEKQQEANETLAEMEEELRYAP
 LSFRNPMSKLRNYRKDLAKLHREVRSTPLTATPGGRGDMKYGIYAVENEHNMRLQSQRAMLLQGTESLN
 RATQSIERSHRIATETDQIGSEIIIEELGEQRDQLERTKSRLVNTSENLSKSRKILRSMRKVTTNKLLLS
 IILLELAAILGGLVYYYKFFRSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6395_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006370

ORF Size: 696 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.

RefSeq: [NM_006370.3](#)

RefSeq Size: 1357 bp

RefSeq ORF: 699 bp

Locus ID: 10490

UniProt ID: [Q9UEU0](#)

Cytogenetics: 14q24.1

Domains: t_SNARE, V-SNARE

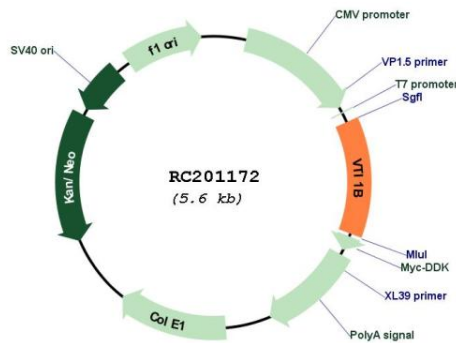
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: SNARE interactions in vesicular transport

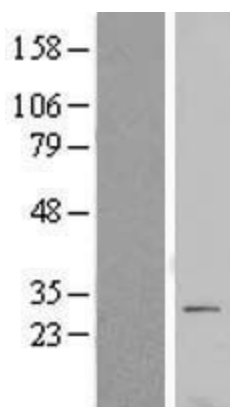
MW: 26.7 kDa

Gene Summary: V-SNARE that mediates vesicle transport pathways through interactions with t-SNAREs on the target membrane. These interactions are proposed to mediate aspects of the specificity of vesicle trafficking and to promote fusion of the lipid bilayers. May be concerned with increased secretion of cytokines associated with cellular senescence.[UniProtKB/Swiss-Prot Function]

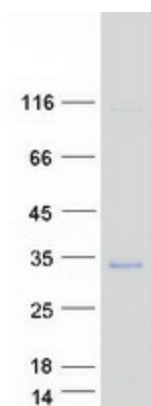
Product images:



Circular map for RC201172



Western blot validation of overexpression lysate (Cat# [LY416689]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201172 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VTI1B protein (Cat# [TP301172]). The protein was produced from HEK293T cells transfected with VTI1B cDNA clone (Cat# RC201172) using MegaTran 2.0 (Cat# [TT210002]).