

Product datasheet for **RC213934**

VTI1A (NM_145206) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VTI1A (NM_145206) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VTI1A
Synonyms:	MMDS3; MVti1; Vti1-rp2; VTI1RP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213934 representing NM_145206 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTCGACTTCGAAGGTTACGAGCAGGACTTCGCGGTGCTCACTGCAGAGATCACCAGCAAGATTG
CGAGGGTCCCACGACTCCCGCTGATGAAAAGAAACAGATGGTTGCAATGTGGAGAAACAGCTTGAAGA
AGCGAAAGAACTGCTTGAACAGATGGATTTGGAAGTCCGAGAGATACCACCCAAAGTCGAGGGATGTAC
AGCAACAGAATGAGAAGCTACAAACAAGAAATGGGAAACTCGAAACAGATTTTAAAGGTCACGGATCG
CCTACAGTGACGAAGTACGAATGAGCTCCTGGGGATGATGGGAATTCCTCAGAGAACCAGAGGGCACA
TCTGCTCGATAACACAGAGAGGCTGGAAAGGTCATCTCGGAGACTAGAGGCTGGATACCAAATAGCAGTG
GAAACCGAGCAAATTGGTCAGGAGATGTTGAAAACCTTAGTCATGACAGAGAAAAGATACAGCGAGCAC
GTGAAAGACTTCGGGAAACAGATGCTAATTTGGGAAAAGCTCCAGGATTCTGACAGGGATGTTGCGAAG
AATCATCCAGAACCGCATCCTGCTCGTCATCCTAGGGATCATCGTGGTCATCACCATCCTGATGGCGATC
ACTTTTCTGTCAGAAGACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC213934 representing NM_145206
 Red=Cloning site Green=Tags(s)

MSSDFEGYEQDFAVLTAEITSKIARVPRLPPEKKQMVANVEKQLEEAKELLEQMDLEVREIPPQSRGMY
 SNRMRSYKQEMGKLETDKRSRIAYSDEVNELLGDDGNSENQRAHLLDNTERLERSRRLEAGYQIAV
 ETEQIQEMLNLSHDREKIQRARERLRETDANLGKSSRILTGMLRRIIQNRILLVILGIIVVITILMAI
 TFSVRRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6504_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145206

ORF Size: 651 bp

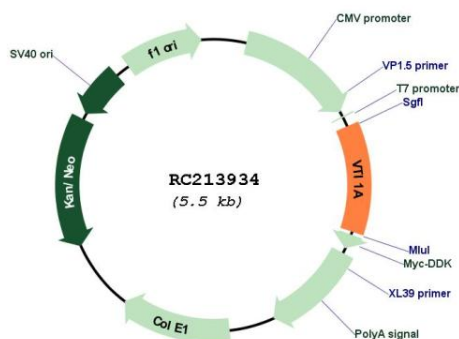
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

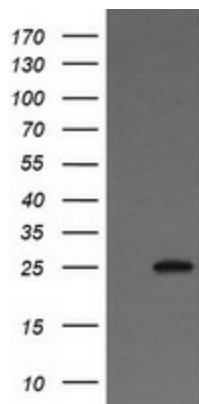
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_145206.4</u>
RefSeq Size:	4401 bp
RefSeq ORF:	654 bp
Locus ID:	143187
UniProt ID:	<u>Q96AJ9</u>
Cytogenetics:	10q25.2
Domains:	V-SNARE
Protein Families:	Transmembrane
Protein Pathways:	SNARE interactions in vesicular transport
MW:	25 kDa
Gene Summary:	<p>The protein encoded by this gene is a member of the family of soluble N-ethylmaleimide-sensitive fusion protein-attachment protein receptors (SNAREs) that function in intracellular trafficking. This family member is involved in vesicular transport between endosomes and the trans-Golgi network. It is a vesicle-associated SNARE (v-SNARE) that interacts with target membrane SNAREs (t-SNAREs). Polymorphisms in this gene have been associated with binocular function, and also with susceptibility to colorectal and lung cancers. A recurrent rearrangement has been found between this gene and the transcription factor 7-like 2 (TCF7L2) gene in colorectal cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]</p>

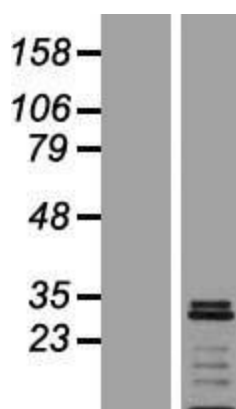
Product images:



Circular map for RC213934



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY VTI1A (Cat# RC213934, 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-VTI1A (Cat# [TA505824]). Positive lysates [LY407945] (100ug) and [LC407945] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407945]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213934 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified VTI1A protein (Cat# [TP313934]). The protein was produced from HEK293T cells transfected with VTI1A cDNA clone (Cat# RC213934) using MegaTran 2.0 (Cat# [TT210002]).