

## Product datasheet for MR202429

### Vti1a (NM\_016862) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vti1a (NM_016862) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vti1a
Synonyms:	1110014F16Rik; 1110018K19Rik; 4921537J05Rik; MVti1; MVti1a; Vti1; Vti1-rp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202429 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTCCGACTTCGAAGGGTACGAGCAGGACTTCGCAGTGCTCACTGCTGAGATCACCAGCAAGATTG  
CAAGGGTCCCTCGGCTCCCTCCCGATGAGAAGAAGCAAATGGTTGCCAATGTGGAGAAACAGCTTGAAGA  
GGCCAGAGAACTGCTTGAACAGATGGATTTGGAAGTTCGAGAAATCCACCCAAAGTCGAGGAATGTAT  
AGCAACAGGATGAGAAGCTACAAGCAAGAAATGGGGAACTGAAACGGATTTTAAAGGTCACGGATTG  
CCTACAGTGACGAAGTACGGAATGAGCTCCTAGGGGATGCTGGGAATTCCTCCGAGAACCAGAGGGCACA  
TCTGCTGGATAACACGGAGAGGCTGAAAAGGTCGTCTCGGAGACTAGAGGCTGGGTACCAGATAGCAGTG  
GAGACCGAGCAAATCGGCCAAGAGATGTTGAAAACCTGAGTCATGACAGAGAAAAGATACAGCGGGCAC  
GTGACCGACTCCGGGACGACGCAAACCTGGGGAAGAGCTCTCGGATTCTGACGGGGATGCTGCGAAG  
AATCATCCAGAACCGTATCCTGCTCGTCATCTTGGGGATCATCGTGGTCATCGCCATCCTGACGGCCATC  
GCGTTTTTCGTCAAAGGACAC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202429 protein sequence  
 Red=Cloning site Green=Tags(s)

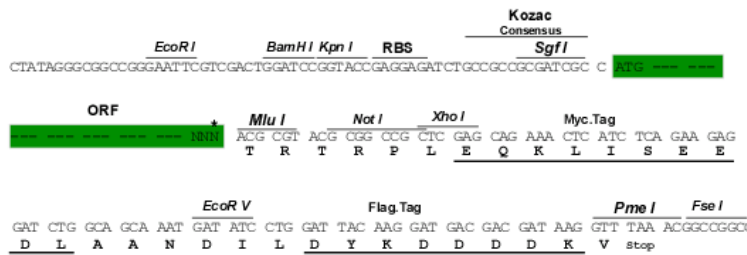
MSSDFEGYEQDFAVLTAEITSKIARVPRLPPEDEKKQMVANVEKQLEEARELLEQMDLEVREIPPQSRGMY  
 SNRMRSYKQEMGKLETDFKRSRIAYSDEVNELLGDAGNSSENQRAHLLDNTERLERSRRLEAGYQIAV  
 ETEIQIQEMLLENLSHDREKIQRARDRLRDADANLGKSSRILTGMLRRIIQNRILLVILGIIVVIAILTAI  
 AFFVKGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_016862

**ORF Size:** 654 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\\_016862.1](#), [NM\\_016862.2](#), [NM\\_016862.3](#), [NM\\_016862.4](#), [NP\\_058558.1](#)

**RefSeq Size:** 4599 bp

**RefSeq ORF:** 654 bp

**Locus ID:** 53611

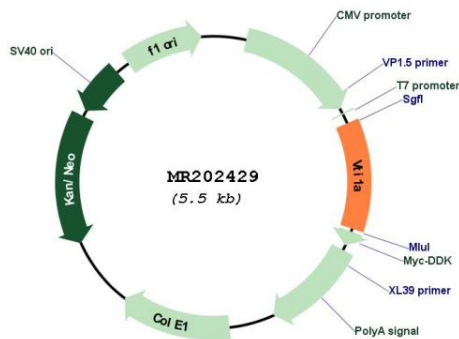
**UniProt ID:** [O89116](#)

**Cytogenetics:** 19 D2

**MW:** 25 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. Involved in vesicular transport from the late endosomes to the trans-Golgi network. Along with VAMP7, involved in a non-conventional RAB1-dependent traffic route to the cell surface used by KCNIP1 and KCND2. May be concerned with increased secretion of cytokines associated with cellular senescence. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202429