

## Product datasheet for **MG202429**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vti1a (NM_016862) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vti1a
Synonyms:	1110014F16Rik; 1110018K19Rik; 4921537J05Rik; MVti1; MVti1a; Vti1; Vti1-rp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202429 representing NM_016862 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCTCCGACTTCGAAGGGTACGAGCAGGACTTCGCAGTGCTCACTGCTGAGATCACCAGCAAGATTG  
CAAGGGTCCCTCGGCTCCCTCCCGATGAGAAGAAGCAAATGGTTGCCAATGTGGAGAAACAGCTTGAAGA  
GGCCAGAGAACTGCTTGAACAGATGGATTTGGAAGTTCGAGAAATCCACCCAAAGTCGAGGAATGTAT  
AGCAACAGGATGAGAAGCTACAAGCAAGAAATGGGGAACTGAAACGGATTTTAAAGGTCACGGATTG  
CCTACAGTGACGAAGTACGGAATGAGCTCCTAGGGGATGCTGGGAATTCCTCCGAGAACCAGAGGGCACA  
TCTGCTGGATAACACGGAGAGGCTGGAAAGTCTCTCGGAGACTAGAGGCTGGGTACCAGATAGCAGTG  
GAGACCGAGCAAATCGGCCAAGAGATGTTGAAAACCTGAGTCATGACAGAGAAAAGATACAGCGGGCAC  
GTGACCGACTCCGGGACGACGCAAACCTGGGGAAGAGCTCTCGGATTCTGACGGGGATGCTGCGAAG  
AATCATCCAGAACCGTATCCTGCTCGTCATCTTGGGGATCATCGTGGTCATCGCCATCCTGACGGCCATC  
GCGTTTTTCGTCAAAGGACAC

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202429 representing NM\_016862  
 Red=Cloning site Green=Tags(s)

MSSDFEGYEQDFAVLTAEITSKIARVPRLPPEDEKKQMVANVEKQLEEARELLEQMDLEVREIPPQSRGMYSNRMRSYKQEMGKLETDKFRSRIAYSDEVNELLGDAGNSSENQRAHLLDNTERLERSRRLEAGYQIAVETEIQIGQEMLENLSHDREKIQRARDRLRDADANLGKSSRILTGMLRRIIQNRILLVILGIIVVIAILTAIAFFVKGH

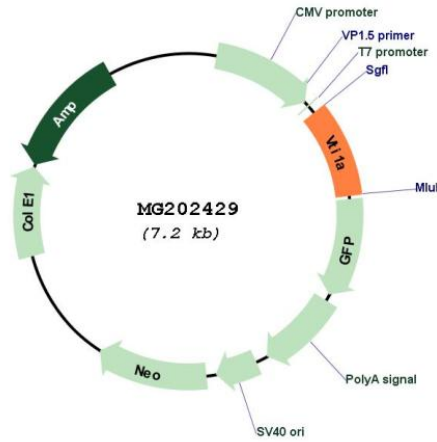
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_016862

ORF Size: 651 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_016862.2</a> , <a href="#">NP_058558.1</a>
<b>RefSeq Size:</b>	3406 bp
<b>RefSeq ORF:</b>	654 bp
<b>Locus ID:</b>	53611
<b>UniProt ID:</b>	<a href="#">O89116</a>
<b>Cytogenetics:</b>	19 D2
<b>Gene Summary:</b>	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]