

## Product datasheet for **RR208905**

### Vtcn1 (NM\_001024244) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Vtcn1 (NM_001024244) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vtcn1
Synonyms:	RGD1311204
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR208905 representing NM_001024244 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCTTCCTTGGGGCAGATCATCTTTTGGAGTATTATTAACGTCATCATCATCCTGGCTGGAGCCATCG  
TACTCATCATTGGCTTTGGTATTTTCAGGCAAGCACTTCATCACGGTCACAACCTTCACCTCAGCTGGAAA  
TATTGGAGAGGACGGACCCTGAGCTGCACGTTTGAACCTGACATCAAACCAACGGCATCGTCATCCAG  
TGGCTGAAGGAAGGCATCAAAGTTTGGTCCATGAGTTCAAAGAGGGCAAAGACGACCTCTCACAGCAGC  
ACGAGATGTTTCGAGGCCGGACAGCAGTGTTCAGATCAAGTGGTGGTTGGCAATGCTTCCTGAGACT  
GAAAAATGTGCAGCTCACTGATGCTGGCACCTACACATGTTATATCCACACCTCAAAGGCAAAGGGAAT  
GCTAACCTTGAGTATAAGACTGGAGCCTTCAGTATGCCAGAGATTAATGTGGACTATAATGCCAGTTCGG  
AGAGTCTACGCTGTGAGGCTCCTCGGTGGTTCCCCCAGCCACAGTGGCCTGGGCATCTCAAGTTGACCA  
AGGAGCCAACCTCTCAGAAGTCTCCAACACTAGCTTCGAGTTGAACTCTGAGAATGTGACCATGAAGGTC  
GTATCTGTGCTCTACAATGTCACAATCAACAACACATACTCCTGTATGATCGAAAACGATATTGCCAAAG  
CCACAGGGGACATCAAAGTGACAGATTCAGAGGTCAAAGGCGTAGTCAGCTGGAGCTGCTGAACCTGG  
GCCTTCTCCGTGTGTTTCTTCTGTCTCTGCCGCTGGCTGGGCACTCCTATCTCTCTCTGTTGCCTGATG  
CTAAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR208905 representing NM\_001024244  
Red=Cloning site Green=Tags(s)

MASLGQIIFWSIINVIIILAGAVLIIGFGISGKHFITVTTFTSAGNIGEDGTLCTFEPDIKLNQIVIQ  
 WLKEGIKGLVHEFKEGKDDLQQHEMFRGRTAVFADQVVVGNASLRKKNVQLTDAGTYTCYIHTSKGKGN  
 ANLEYKTGAFSMPEINVDYNASSELRCEAPRWFPOPTVAWASQVDQGANFSEVSNTSFELNSENVTMKV  
 VSVLYNVTINNTYSCMIENDIAKATGDIKVTDSEVKRRSQLELLNSGPPSPCVSSVSAAGWALLSLSCCLM  
 LR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2791\\_e03.zip](https://cdn.origene.com/chromatograms/ja2791_e03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001024244

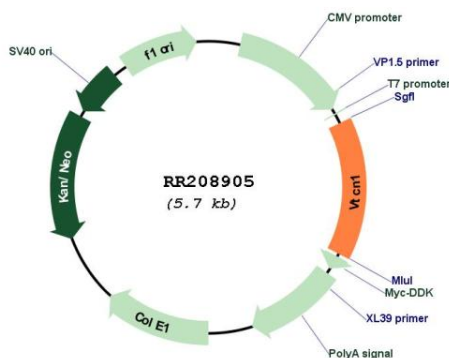
**ORF Size:** 846 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<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>	<u><a href="#">NM_001024244.1</a></u> , <u><a href="#">NP_001019415.1</a></u>
<b>RefSeq Size:</b>	2657 bp
<b>RefSeq ORF:</b>	849 bp
<b>Locus ID:</b>	295322
<b>UniProt ID:</b>	<u><a href="#">Q501W4</a></u>
<b>Cytogenetics:</b>	2q34
<b>MW:</b>	30.7 kDa
<b>Gene Summary:</b>	Negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. When expressed on the cell surface of tumor macrophages, plays an important role, together with regulatory T-cells (Treg), in the suppression of tumor-associated antigen-specific T-cell immunity. Involved in promoting epithelial cell transformation (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR208905