

Product datasheet for MR203847

Vtcn1 (NM_178594) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vtcn1 (NM_178594) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vtcn1
Synonyms:	B7h4; B7s1; B7x; BC032925
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203847 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTCCTTGGGGCAGATCATCTTTGGAGTATTATTAACATCATCATCATCCTGGCTGGGGCCATCG
CACTCATCATTGGCTTTGGCATTTCAGGCAAGCACTTCATCACGGTCACGACCTTCACCTCAGCTGGAAA
CATTGGAGAGGACGGGACCCTGAGCTGCACTTTGAACCTGACATCAAACCAACGGCATCGTCATCCAG
TGGCTGAAAGAAGGCATCAAAGTTTGGTCCACGAGTTCAAAGAAGGCAAAGACGACCTCTCACAGCAGC
ATGAGATGTTGAGAGCCGCACAGCAGTGTGGTGTGATCAGGTGGTAGTTGGCAATGCTTCCTGAGACT
GAAAAACGTGCAGCTCACGGATGCTGGCACCTACACATGTTACATCCGCTCCTCAAAGGCAAGGGGAAT
GCAAACCTTGAGTATAAGACCGGAGCCTTCAGTATGCCAGAGATAAATGTGGACTATAATGCCAGTTCAG
AGAGTTTACGCTGCGAGGCTCCTCGGTGGTTCCCCCAGCCACAGTGGCCTGGGCATCTCAAGTTGACCA
AGGAGCCAACCTCTCAGAAGTCTCCAACACCAGCTTTGAGTTGAACTCTGAGAATGTGACCATGAAGGTC
GTATCTGTGCTCTACAATGTCACAATCAACAACATACTCCTGTATGATTGAAAACGACATTGCCAAAG
CCACCGGGGACATCAAAGTGACAGATTCAGAGGTCAAAGGCGGAGTCAGCTGCAGTTGCTGAACTCTGG
GCCTTCCCCGTGTTTCTTCTCTGCCTTTGTGGCTGGCTGGGCACTCCTATCTCTCCTGTTGCCTG
ATGCTAAGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203847 protein sequence
Red=Cloning site Green=Tags(s)

MASLGQIIFWSIINIIILAGAIALIIGFGISGKHFITVTTFTSAGNIGEDGTLCTFEPDIKLNQIVIQ
 WLKEGIKGLVHEFKEGKDDLQQHEMFRGRTAVFADQVVVGNASLRKKNVQLTDAGTYTCYIRSSKGKGN
 ANLEYKTGAFSMPEINVDYNASSESLRCEAPRWFPOPTVAWASQVDQGANFSEVSNFSFELNSENVTMKV
 VSVLYNVTINNTYSCMIENDIAKATGDIKVTDSEVKRRSQLQLLNSGSPSPCVSSSAFVAGWALLSLSCCL
 MLR

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_178594

ORF Size: 852 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_178594.2](#), [NP_848709.1](#)

RefSeq Size: 2622 bp

RefSeq ORF: 852 bp

Locus ID: 242122

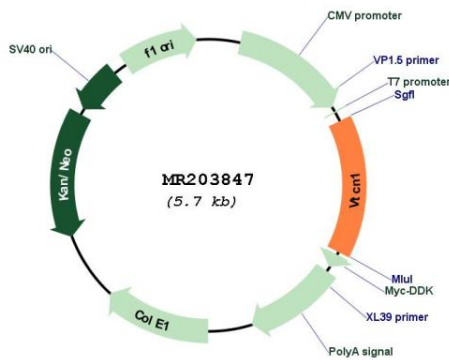
UniProt ID: [Q7TSP5](#)

Cytogenetics: 3 F2.2

MW: 30.8 kDa

Gene Summary: 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203847