

## Product datasheet for **MR200313**

### Vma21 (NM\_001081356) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vma21 (NM\_001081356) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Vma21  
**Synonyms:** 2610030H06Rik; A1840175  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR200313 representing NM\_001081356  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCGTCTTGATAAAGCAGCGCTCAATGCGCTGCAGCCTCCAGAGTTCAGAAATGAAACTCTTTAG  
CTGCAACCCTGAAGACTGCTGTTCTTCACAGCTTTAATGATCACGGTTCCTATCGGCTTGATTTTAC  
AACGAAAGCTTATATTTGAAGGTGCCCTTGAATGTCTAATAGAGACAGCTATTTTTATGCCGCAATT  
GTTGCTGTTGCTGTTTCATGTGTTCTGGCCCTGTTTGTCTATGTGGCCTGGAATGAAGGCTCACGAC  
AGTGGCGTGAAGCAAACAGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR200313 representing NM\_001081356  
Red=Cloning site Green=Tags(s)  
MERLDKAALNALQPPEFRNENSLAATLKTLLFF TALMITVPIGLYFTTKAYIFEGALGMSNRDSYFYAAI  
VAVVAVHVVLALFVYVAVNEGSRQWREGKQD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9026\\_b09.zip](https://cdn.origene.com/chromatograms/mm9026_b09.zip)

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001081356

**ORF Size:** 303 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\\_001081356.3](#), [NP\\_001074825.1](#)

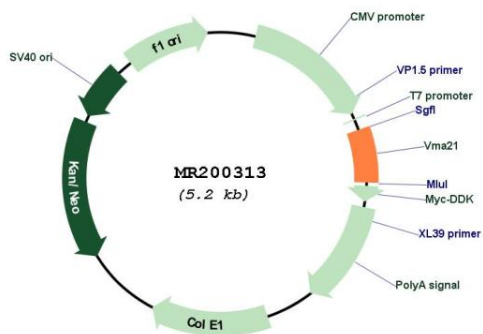
**RefSeq Size:** 4174 bp

**RefSeq ORF:** 306 bp

**Locus ID:** 67048

UniProt ID: [Q78T54](#)  
 Cytogenetics: X A7.3  
 MW: 11.8 kDa  
 Gene Summary: Required for the assembly of the V0 complex of the vacuolar ATPase (V-ATPase) in the endoplasmic reticulum.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR200313