

## Product datasheet for MR201263

### Vkorc1 (NM\_178600) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vkorc1 (NM\_178600) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Vkorc1  
**Synonyms:** D7Wsu86; D7Wsu86e  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201263 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGGCACCACCTGGAGGAGCCCTGGACTGGTGC GGCTTGCACTGTGCCTCGCTGGCTTAGCCCTCAC  
 TGTACGCACTGCACGTGAAGGCGCGCGCCCGCATGAGAATTACCGCGCTCTGCGATGTGGGCAC  
 GGCCATCAGCTGTTCCCGCTTCTCCTCTCGGTGGGGCGGGCTTTGGGCTGGTGGAGCACATGCTA  
 GGAGCGGACAGCTCCTCAACCAATCCAACAGCATATTTGGTTGCCTGTTCTACACCTTACAGCTGTTGT  
 TAGGTTGCTTGAGGGACGTTGGCCTCTATCCTACTGGTGCTGAGTTCCTGGTGTCCGTCGCTGGTTC  
 CGTGACCTGGCCTGGATCCTGTTCTTTGTGTTATATGATTTCTGATTGTGTGCATTACCACCTATGCC  
 ATCAATGTGGTCTGATGTTGCTTAGCTCCAGAAGGTACCAGAACACAAGACCAAAAAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201263 protein sequence  
 Red=Cloning site Green=Tags(s)

MGTTWRSPGLVRLALCLAGLALS LYLHVKAARARDENYRALCDVGTAI SCSRVS SRRWGRGFLVEHML  
 GADSVLNQSNIFGCLFYTLQ LLLGCLRGRWASILLV LSSLVSVAGSVYLAWILFFVLYDFCIVCITTYA  
 INVGLMLLSFQKVP EHKTKKH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_178600

**ORF Size:** 486 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\\_178600.1](#), [NM\\_178600.2](#), [NP\\_848715.1](#)

**RefSeq Size:** 764 bp

**RefSeq ORF:** 486 bp

**Locus ID:** 27973

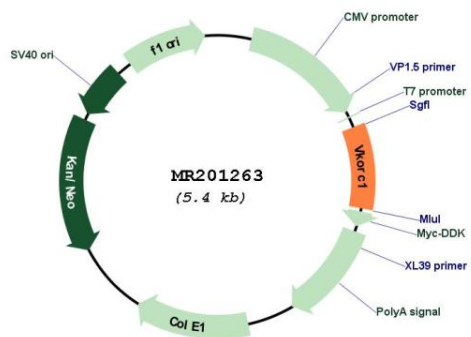
**UniProt ID:** [Q9CRC0](#)

**Cytogenetics:** 7 69.81 cM

**MW:** 17.8 kDa

**Gene Summary:** Vitamin K is essential for blood clotting but must be enzymatically activated. This enzymatically activated form of vitamin K is a reduced form required for the carboxylation of glutamic acid residues in some blood-clotting proteins. The product of this gene encodes the enzyme that is responsible for reducing vitamin K 2,3-epoxide to the enzymatically activated form. Fatal bleeding can be caused by vitamin K deficiency and by the vitamin K antagonist warfarin, and it is the product of this gene that is sensitive to warfarin. In humans, mutations in this gene can be associated with deficiencies in vitamin-K-dependent clotting factors and, in humans and rats, with warfarin resistance. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for MR201263