

## Product datasheet for **MG201263**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Vkorc1 (NM\_178600) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Vkorc1  
**Synonyms:** D7Wsu86; D7Wsu86e  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201263 representing NM\_178600  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGGCACCACCTGGAGGAGCCCTGGACTGGTGC GGCTTGCACTGTGCCTCGCTGGCTTAGCCCTCTCAC  
TGTAACGCACTGCACGTGAAGGCGCGCGCGCCGCGATGAGAATTACGCGCGCTCTGCGATGTGGGCAC  
GGCCATCAGCTGTTCCCGCGTCTTCTCCTCTCGGTGGGGCCGGGGCTTTGGGCTGGTGGAGCACATGCTA  
GGAGCGGACAGCGTCCTCAACCAATCCAACAGCATATTTGGTTGCCTGTTCTACACCTTACAGCTGTTGT  
TAGGTTGCTTGAGGGGACGTTGGCCTCTATCCTACTGGTGCTGAGTTCCTGGTGTCCGTCGCTGGTTC  
CGTGTAACCTGGCCTGGATCCTGTTCTTTGTGTTATATGATTTCTGTATTGTGTGCATTACCACCTATGCC  
ATCAATGTGGGTCTGATGTTGCTTAGCTTCCAGAAGGTACCAGAACACAAGACCAAAAAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201263 representing NM\_178600  
Red=Cloning site Green=Tags(s)

MGTTWSPGLVRLALCLAGLALSLYALHVKAARARDENYRALCDVGTAIISCSRVFSSRWGRGFLVEHML  
 GADSVLNQNSIFGCLFYTLQLLLGCLRGRWASILLVLSLVSVAGSVYLAWILFFVLYDFCIVCITTYA  
 INVGLMLLSFQKVPEHKTKKH

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:

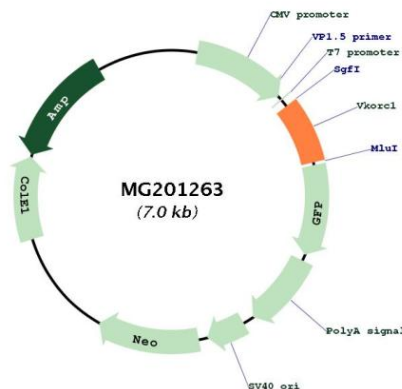


ACCN:	NM_178600
ORF Size:	483 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
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:	<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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<a href="#">NM_178600.2</a> , <a href="#">NP_848715.1</a>
RefSeq Size:	764 bp
RefSeq ORF:	486 bp

**Locus ID:** 27973  
**UniProt ID:** [Q9CRC0](#)  
**Cytogenetics:** 7 69.81 cM  
**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 MG201263