

Product datasheet for **RN215687**

Vkorc1 (NM_203335) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vkorc1 (NM_203335) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Vkorc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215687 representing NM_203335 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACCACCTGGAGGAGCCCTGGACGTTTGC GGCTTGCACTATGCCTCGCTGGCCTAGCCCTCTCAC
TGTAACGCACTGCACGTGAAGGCGGCGCGCGCCGCAATGAGGATTACCGCGCGCTCTGCGACGTGGGCAC
GGCCATCAGCTGTTCCCGCGTCTTCTCCTCTCGGTGGGGCCGGGGCTTTGGGCTGGTGGAGCATGTGTTA
GGAGCTGACAGCATCCTCAACCAATCCAACAGCATATTTGGTTGCATGTTCTACACCATAACAGCTGTTGT
TAGGTTGCTTGAGGGGACGTTGGCCTCTATCCTACTGATCCTGAGTTCCTGGTGTCTGTCGCTGGTTC
TCTGTACCTGGCCTGGATCCTGTTCTTTGCTGTATGATTTCTGCATTGTTGCATCACCACCTATGCC
ATCAATGCGGGCCTGATGTTGCTTAGCTTCCAGAAGGTGCCAGAACACAAGGTCAAAAAGCCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_203335
Insert Size:	486 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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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:	<u>NM_203335.2, NP_976080.1</u>
RefSeq Size:	757 bp
RefSeq ORF:	486 bp
Locus ID:	309004
UniProt ID:	<u>Q6TEK4</u>
Cytogenetics:	1q37
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]