

## Product datasheet for SC112318

### VKORC1 (NM\_024006) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VKORC1 (NM\_024006) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** VKORC1  
**Synonyms:** EDTP308; MST134; MST576; VKCFD2; VKOR  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_024006 edited  
 ATGGGCAGCACCTGGGGAGCCCTGGCTGGGTGCGGCTCGCTCTTTGCTGACGGGCTTA  
 TGCTCTCGCTACGCGCTGCACGTGAAGGCGGCGCGCCCGGACCGGGATTACCGC  
 GCGCTCTGCGACGTGGGCACCGCCATCAGCTGTTGCGCGCTCTTCTCCTCCAGGTGGGGC  
 AGGGGTTTCGGGCTGGTGGAGCATGTGCTGGGACAGGACAGCATCCTCAATCAATCCAAC  
 AGCATATTCGGTGCATCTTCTACACACTACAGCTATTGTTAGGTTGCTGCGGACACGC  
 TGGGCTCTGTCTGATGCTGCTGAGCTCCCTGGTGTCTCTCGCTGGTTCTGTCTACCTG  
 GCCTGGATCCTGTTCTTCGTGCTCTATGATTTCTGCATTGTTGTATCACCACCTATGCT  
 ATCAACGTGAGCCTGATGTGGCTCAGTTTCCGGAAGGTCCAAGAACCCAGGGCAAGGCT  
 AAGAGGCACTGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_024006 unedited  
 TATAGGCGCCGCGGCCCGCCCTGCTCCGTGGCTGGTTTTCTCCGCGGGCGCCTCGG  
 CGGAACCTGGAGATAATGGGCAGCACCTGGGGAGCCCTGGCTGGGTGCGGCTCGCTCT  
 TGCCTGACGGGCTTAGTGTCTCTCGCTACGCGCTGCACGTGAAGGCGGCGCGCCCGG  
 GACCGGGATTACCGCGCTCTGCGACGTGGGCACCGCCATCAGCTGTTGCGCGCTTTC  
 TCCTCCAGGTGGGCAGGGTTTTCGGGCTGGTGGAGCATGTGCTGGGACAGGACAGCATC  
 CTAATCAATCCAACAGCATATTCGGTTGCATCTTCTACACACTACAGCTATTGTTAGGT  
 TGCTGCGGACACGCTGGCCTCTGCTGATGCTGCTGAGCTCCCTGGTGTCTCTCGCT  
 GGTCTGTCTACCTGGCCTGGATCCTGTTCTTCGTGCTCTATGATTTCTGCATTGTTGT  
 ATCACCACCTATGCTATCAACGTGAGCCTGATGTGGCTCAGTTTCCGGAAGGTCCAAGAA  
 CCCCAGGGCAAGGCTAAGAGGCACTGAGCCCTCAACCCAGCCAGGCTGACCTCATCTGC  
 TTTGCTTTGGCATGTGAGCCTTGCTAAGGGGGCATATCTGGGTCCTAGAAGGCCCTAG  
 ATGTGGGCTTAGATTACCCCTCTCTGCCATACCCGCACATGACAATGGACAAA  
 TGTGCCACACGCTCGCTTTTTTACACCCAGTGCCTCTGACTCTGTCCCATGGGCTGG  
 TCTCCAAGCTCTN



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**Gene Summary:**

This gene encodes the catalytic subunit of the vitamin K epoxide reductase complex, which is responsible for the reduction of inactive vitamin K 2,3-epoxide to active vitamin K in the endoplasmic reticulum membrane. Vitamin K is a required co-factor for carboxylation of glutamic acid residues by vitamin K-dependent gamma-carboxylase in blood-clotting enzymes. Allelic variation in this gene is associated with vitamin k-dependent clotting factors combined deficiency of 2, and increased resistance or sensitivity to warfarin, an inhibitor of vitamin K epoxide reductase. Pseudogenes of this gene are located on chromosomes 1 and X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (1) lacks an alternate in-frame exon compared to variant 3. It encodes isoform 1, which is shorter than isoform 3.