

## Product datasheet for **SC308269**

### VKORC1 (NM\_206824) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	VKORC1 (NM_206824) Human Untagged Clone
Tag:	Tag Free
Symbol:	VKORC1
Synonyms:	EDTP308; MST134; MST576; VKCFD2; VKOR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene sequence for NM_206824 edited</p> <p>ATGGGCAGCACCTGGGGGAGCCCTGGCTGGGTGCGGCTCGCTCTTTGCCTGACGGGCTTA</p> <p>GTGCTCTCGCTCTACGCGCTGCACGTGAAGGCGGCGCGCGCCCGGACCGGGATTACCGC</p> <p>GCGCTCTGCGACGTGGGCACCGCCATCAGCTGTTGCGCGCTCTTCTCCTCCAGTTGCCT</p> <p>GCGGACACGCTGGGCCTCTGTCTGATGCTGCTGAGCTCCCTGGTGTCTCTCGCTGGTTC</p> <p>TGTCTACCTGGCCTGGATCCTGTTCTTCGTGCTCTATGA</p>
Restriction Sites:	Please inquire
ACCN:	NM_206824
Insert Size:	900 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p>

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](#)


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<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_206824.1.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<u>NM_206824.1, NP_996560.1</u>
<b>RefSeq Size:</b>	907 bp
<b>RefSeq ORF:</b>	279 bp
<b>Locus ID:</b>	79001
<b>UniProt ID:</b>	<u>Q9BQB6</u>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks two alternate internal exons, resulting in a frame-shift compared to variant 3. It encodes isoform 2, which is shorter than and has a distinct C-terminus compared to isoform 3.</p>