

## Product datasheet for **RC236298**

### **VKORC1L1 (NM\_001284342) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VKORC1L1 (NM\_001284342) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** VKORC1L1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236298 representing NM\_001284342  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCTCCCGTCTGCTAAGAGTGTCCGGTCCCGGGTGGGAGCGGGTGGCCCGGTATGCAGTGTGCC  
CTGCCCGAATCCTGCTCTCCATCTACGCCTACCACGTGGAGCGGGAGAAGGAGCGGGACCCCGAGCACCG  
GGCCCTCTCGACCTGGGGCCCTGGGTGAAGTGTCCCGCCCTTGCCCTCAGGCATGACAGCAAGCGC  
TGTGGCGCTTTGATCCTCATGACGTCCCTCATGTCGGTTCGTGGGTCCCTGTACCTGCCTACATT  
CTGTACTTTGTGCTGAAGGAGTTCTGCATCATCTGCATCGTCACGTACGTGCTGAACTTCCTTCTCTCA  
TTATCAACTACAAACGACTAGTTTACTTGAACGAGGCCTGGAAGCGGCAGCTGCAACCAAGCAGGACTG  
ACGCCCGACAGACTCCACCCTAACAGTCTCAAGCCCTTCCATTGAGTTATTTTGCAGCAGGTTTTTA  
TTATTATTATTATTATTATTATTACAACAGACTTTCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236298 representing NM\_001284342  
**Red=Cloning site Green=Tags(s)**

MAAPVLLRVSVPRWERYAVCAAGILLSIYAYHVEREKERDPEHRALCDLGPWVKCSAALASRHDSKR  
CGGFDPHDVLHHVGRGVPVPLHSVLC AEGVLHHLHRHVRAELPSSHYQLQTTSLLEERLEAAAAATQAGL  
TPDRLHPNSLKPLSIQFILQQVFIIIIIIHNRHFP

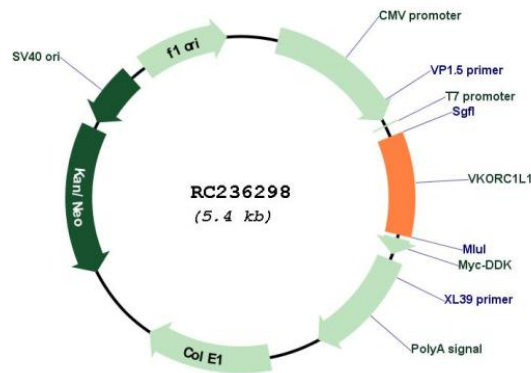
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001284342

**ORF Size:** 531 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.

<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_001284342.3</u>
<b>RefSeq Size:</b>	5803 bp
<b>RefSeq ORF:</b>	534 bp
<b>Locus ID:</b>	154807
<b>UniProt ID:</b>	<u>Q8N0U8</u>
<b>Cytogenetics:</b>	7q11.21
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	20.2 kDa
<b>Gene Summary:</b>	This gene encodes an enzyme important in the vitamin K cycle, which is involved in the carboxylation of glutamate residues present in vitamin K-dependent proteins. The encoded enzyme catalyzes the de-epoxidation of vitamin K 2,3-epoxide. Oxidative stress may upregulate expression of this gene and the encoded protein may protect cells and membrane proteins from oxidative damage. This gene and a related gene (Gene ID: 79001) may have arisen by gene duplication of an ancestral gene. [provided by RefSeq, Oct 2016]