

## Product datasheet for **RG236298**

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

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** VKORC1L1 (NM\_001284342) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** VKORC1L1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236298 representing NM\_001284342.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCTCCCGTCTGCTAAGAGTGTCCGGTCCCGCGGTGGGAGCGGGTGGCCCGGTATGCAGTGTGC
GCTGCCGGAATCTGCTCTCCATCTACGCCTACCACGTGGAGCGGGAGAAGGAGCGGGACCCCGAGCAC
CGGGCCCTCTGCGACCTGGGGCCCTGGGTGAAGTGTCCGCCGCCCTGCCTCCAGGCATGACAGCAAG
CGCTGTGGCGGCTTTGATCCTCATGACGTCCTCCATCATGTCCGGTCTGGGGTCCCTGTACCTGGCCTA
CATTCTGACTTTGTGCTGAAGGAGTTCTGCATCATCTGCATCGTCACGTACGTGCTGAACCTCCTTCT
TCTCATTATCAACTACAAACGACTAGTTTACTTGAACGAGGCCTGGAAGCGGCAGCTGCAACCCAAAGCA
GGACTGACGCCCGACAGACTCCACCCTAACAGTCTCAAGCCCTTCCATTTCAGTTTATTTGCAGCAG
GTTTTTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATTATT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236298  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAAPVLLRVSVPRWERYAVCAAGILLSIYAYHVEREKERDPEHRALCDLGPVWKCSAALASRHDSK
RCGGFDPHDVLLHHVGRGVPVPLHLSVLCAGVLLHLLHRHVRAELPSSHYQLQTTSLRLERGLEAAAATQA
GLTPDRLHPNSLKPLSIQFILQQVFIIIIIIIIHNRHFP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSTRTRFSLRDGGYSSVVDSSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


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.

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).

RefSeq: [NM\\_001284342.3](#)

RefSeq Size: 5803 bp

RefSeq ORF: 534 bp

Locus ID: 154807

UniProt ID: [Q8N0U8](#)

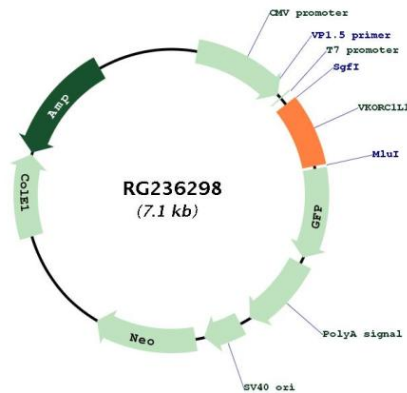
Cytogenetics: 7q11.21

Protein Families: Transmembrane

MW: 20.2 kDa

**Gene Summary:**

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]

**Product images:**


Circular map for RG236298