

Product datasheet for SC334192

OriGene Technologies, Inc.

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VKORC1L1 (NM 001284342) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: VKORC1L1 (NM_001284342) Human Untagged Clone

Tag: Tag Free

Symbol: VKORC1L1

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001284342, the custom clone sequence may differ by one or

more nucleotides

TTATTATTATTATTATTATTCACAACAGACACTTTCCCTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM 001284342

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).

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 001284342.1</u>, <u>NP 001271271.1</u>

 RefSeq Size:
 5803 bp

 RefSeq ORF:
 534 bp

 Locus ID:
 154807

 UniProt ID:
 Q8N0U8

 Cytogenetics:
 7q11.21

Protein Families: Transmembrane

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 form 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]

Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region compared to variant 1. The encoded isoform (2) is shorter than longer and has a distinct C-

terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on

transcript alignments.