

Product datasheet for **RG205726**

VKORC1L1 (NM_173517) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: VKORC1L1 (NM_173517) 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: >RG205726 representing NM_173517
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCTCCCGTCTGCTAAGAGTGTCCGGTCCCGGGTGGGAGCGGGTGGCCCGGTATGCAGTGTGCG
 CTGCCGGAATCCTGCTCTCCATCTACGCCTACCACGTGGAGCGGGAGAAGGAGCGGGACCCCGAGCACCG
 GGCCCTCTGCGACCTGGGGCCCTGGGTGAAGTGTCCGCCGCCCTTGCTCCAGATGGGGTCGAGGATTT
 GGTCTTTTGGGTCCATTTTTGGAAAGGATGGTGTATTAACCAAGCAACAGTGTCTTTGGACTTATAT
 TTTATATACTACAGTTATTACTTGGCATGACAGCAAGCGCTGTGGCGGCTTTGATCCTCATGACGTCCTC
 CATCATGTCGGTCTGGGGTCCCTGTACCTGGCCTACATTCTGTACTTTGTGCTGAAGGAGTTCTGCATC
 ATCTGCATCGTCACGTACGTGCTGAACCTCCTTCTTCTCATTATCAACTACAAACGACTAGTTTACTTGA
 ACGAGGCCTGGAAGCGGCAGCTGCAACCAAGCAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205726 representing NM_173517
Red=Cloning site Green=Tags(s)

MAAPVLLRVSVPRWERVARYAVCAAGILLSIYAYHVEREKERDPEHRALCDLGPWVKCSAALASRWGRGF
 GLLGSIFGKDGVLNQPNVFLIFYILQLLLGMTASAVAALILMTSSIMSVVGSLYLAYILYFVLKEFCI
 ICIVTYVLNLLLLIINYKRLVYLNEAWKRQLQPKQD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_173517

ORF Size: 528 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).

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: [NM_173517.6](#)

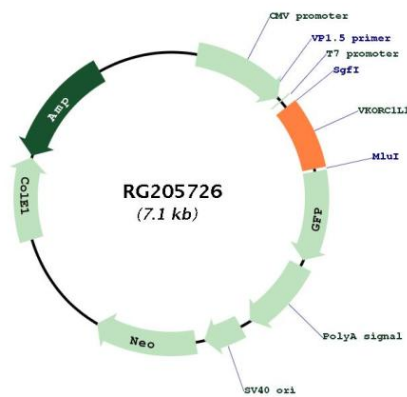
RefSeq Size: 1148 bp

RefSeq ORF: 531 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 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 RG205726