

Product datasheet for RC202639

VKORC1 (NM_024006) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	VKORC1 (NM_024006) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	VKORC1
Synonyms:	EDTP308; MST134; MST576; VKCFD2; VKOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC202639 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC
	ATGGGCAGCACCTGGGGGAGCCCTGGCTGGGTGCGGCTCGCTC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGG TTTAA
Protein Sequence:	>RC202639 protein sequence <mark>Red=</mark> Cloning site Green=Tags(s)
	MGSTWGSPGWVRLALCLTGLVLSLYALHVKAARARDRDYRALCDVGTAISCSRVFSSRWGRGFGLVEHVL GQDSILNQSNSIFGCIFYTLQLLLGCLRTRWASVLMLLSSLVSLAGSVYLAWILFFVLYDFCIVCITTYA INVSLMWLSFRKVQEPQGKAKRH
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6144_a12.zip



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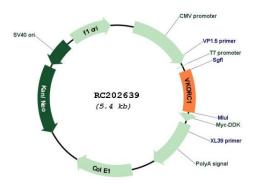
GRIGENE VKORC1 (NM_024006) Human Tagged ORF Clone – RC202639

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ACCN: NM ORF Size: 489 OTI Disclaimer: The refe nate clor vari OTI Annotation: This vari Components: The con Reconstitution Method: 1. C 2. C 3. C	<pre>r crs acA acA AAT ATC Crs GAT TAC AAS GAT GAC GAC GAT AAS GTT TAA ACGECCGGCC L A A N D I L D Y K D D D K V stop The bat codonbefore the Stop codon of the ORF 1_024006 D bp e molecular sequence of this clone aligns with the gene accession number as a point of erence only. However, individual transcript sequences of the same gene can differ through curally occurring variations (e.g. polymorphisms), each with its own valid existence. This ne is substantially in agreement with the reference, but a complete review of all prevailing</pre>
ACCN: NM ORF Size: 489 OTI Disclaimer: The refe nati Clor vari OTI Annotation: This vari Components: The con Reconstitution Method: 1. C 2. C 3. C	1_024006 9 bp e molecular sequence of this clone aligns with the gene accession number as a point of erence only. However, individual transcript sequences of the same gene can differ through curally occurring variations (e.g. polymorphisms), each with its own valid existence. This ne is substantially in agreement with the reference, but a complete review of all prevailing
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vari Components: The con Reconstitution Method: 1. C 2. C 3. C	
con econstitution Method: 1. C 2. C 3. C	s clone was engineered to express the complete ORF with an expression tag. Expression ies depending on the nature of the gene.
2. C 3. C	e ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube ntaining 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
5. S	Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of pping when stored at -20°C.
	smids are not sterile. For experiments where strict sterility is required, filtration with 2um filter is required.
efSeq: <u>NM</u>	1 024006.6
efSeq Size: 104	42 bp
efSeq ORF: 492	2 bp

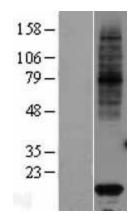
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	VKORC1 (NM_024006) Human Tagged ORF Clone – RC202639
Locus ID:	79001
UniProt ID:	<u>Q9BQB6</u>
Cytogenetics:	16p11.2
Protein Families:	Transmembrane
MW:	18.2 kDa
Gene Summary:	This gene encodes the catalytic subunit of the vitamin K epoxide reductase 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]

Product images:



Circular map for RC202639



Western blot validation of overexpression lysate (Cat# [LY402968]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202639 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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