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Product datasheet for MR216232

Vkorc1l1 (NM_001001327) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Vkorc1l1 (NM_001001327) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Vkorc1l1

Synonyms: 2310024K08Rik

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide Sequence:

>MR216232 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGCCCGTCCTGCTGAGAGTGTCGGTGCCGCGTTGGGAACGGGTGGCCCGGTATGCAGTGTGCG
CCGCCGGGATCCTGCTCTCCATCTACGCCTACCACGTGGAGCGGGAGAAGGAGAGGGACCCGGAGCACCG
GGCCCTCTGCGACCTGGGGCCCTGGGTGAAGTGCTCCGCCGCCCTGGCCTCCAGGCATGACAGCCAGCGC
AGTTGCAGCTCTGGTCCTCATGACCTCCTCCATTGTGTCTGTGGTGGGCTCTTTGTACCTGGCCTACATT
CTGTACTTTGTGCTGAAAGAGTTTTGCATCATCTGCGTCACCACATATGTGCTGAACTTCCTCCTCCTCA
TCATCAATTACAAACGACTAGTTTATTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216232 protein sequence
Red=Cloning site Green=Tags(s)

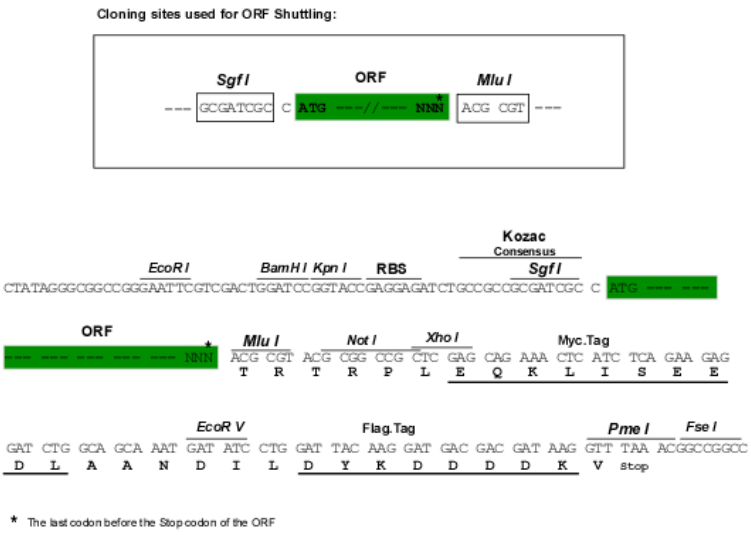
MAAPVLLRVSVPRWERVARYAVCAAGILLSIYAYHVEREKERDPEHRALCDLGPWVKCSAALASRHDSQR
SCSSGPHDLLHCVCGGLFVPGLHSVLCAERVLHHLRHHICAELPPPHHQLQTTSLFE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

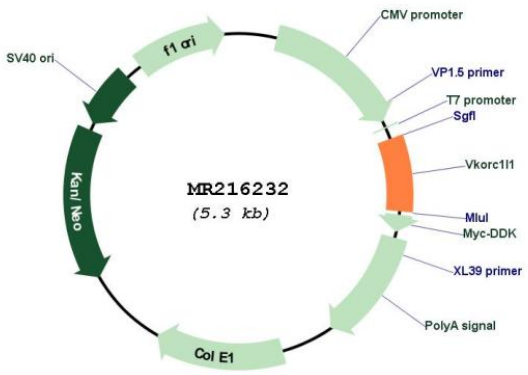
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



ACCN: NM_001001327

ORF Size: 384 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_001001327.2, NP_001001327.1
RefSeq Size:	4825 bp
RefSeq ORF:	384 bp
Locus ID:	69568
Cytogenetics:	5 G1.3
MW:	14.2 kDa
Gene Summary:	Involved in vitamin K metabolism. Can reduce inactive vitamin K 2,3-epoxide to active vitamin K (in vitro), and may contribute to vitamin K-mediated protection against oxidative stress. Plays a role in vitamin K-dependent gamma-carboxylation of Glu residues in target proteins. [UniProtKB/Swiss-Prot Function]