

Product datasheet for RR214136

Vkorc111 (NM_203338) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vkorc111 (NM_203338) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Vkorc111
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR214136 representing NM_203338
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGCGGCGCCCGTCTGCTGAGAGTGTCCGGTCCCGGGTGGGAACGGGTGGCCCGGTATGCAGTGTGCC
CCGCCGGGATCCTGCTCTCCATCTACGCCTACCACGTGGAGCGGGAGAAGGAGAGGGACCCGGAGCACCG
GGCCCTCTGCGACCTGGGGCCCTGGGTGAAGTGTCCGCCGCCCTGGCCTCCAGATGGGGTCGAGGATTT
GGTCTTTTGGGTTCCATTTTGGAAAAGATGGTGTATTAACAGCCAAACAGTGTCTTTGGACTTATAT
TTTATATACTACAGTTATTACTTGGCATGACAGCCAGCGCAGTTGCAGCTCTGGTCTCATGACCTCCTC
CATCGTGTCCGTGGTGGGTCTTTGTACCTGGCTACATTCTGTACTTTGTGCTGAAGGAGTTTTGCATC
ATCTGCGTCACCACATATGTGCTGAACCTCCTTCTCCTCATCATCAACTACAAACGACTGGTTTACTTGA
ATGAGGCCTGGAAGCGACAACCTGCAGCCTAAGGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214136 representing NM_203338
Red=Cloning site Green=Tags(s)

MAAPVLLRVSVPRWERYAVCAAGILLSIYAYHVEREKERDPEHRALCDLGPWVKCSAALASRWGRGF
GLLGSIFGKDGVLNQPNSVFGLIFYILQLLLGMTASAVAALVLMTSSIVSVVGSLYLAYILYFVLKEFCI
ICVTTYVLNLLLLIINYKRLVYLNEAWKRQLQPKED

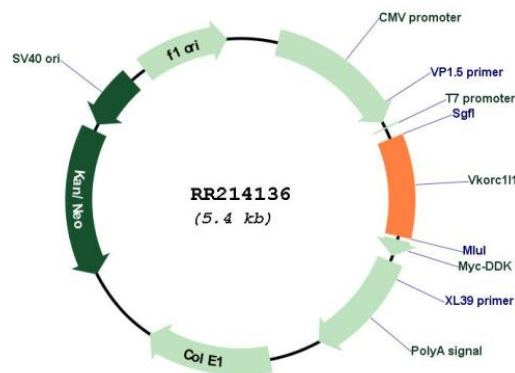
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_203338

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:	<ol style="list-style-type: none">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_203338.1</u> , <u>NP_976083.1</u>
RefSeq Size:	1031 bp
RefSeq ORF:	531 bp
Locus ID:	399684
UniProt ID:	<u>Q6TEK3</u>
Cytogenetics:	12q12-q13
MW:	19.8 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]