

Product datasheet for MR215687

Vkorc111 (NM_027121) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Vkorc111 (NM_027121) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Vkorc111
Synonyms: 2310024K08Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR215687 representing NM_027121
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGCCCGTCTGCTGAGAGTGTGGTCCCGCTTGGAAACGGGTGGCCCGGTATGCAGTGTGCG
 CCGCCGGGATCTGCTCTCCATCTACGCCTACCACGTGGAGCGGGAGAAGGAGAGGGACCCGGAGACCG
 GGCCCTCTGCGACCTGGGGCCCTGGGTGAAGTGTCCGCCGCCCTGGCCTCCAGATGGGGTCGAGGATTT
 GGTCTTTGGGTCCATTTTGGAAAAGATGGTGTATTAACCAGCCAAACAGTGTCTTTGGACTTATAT
 TTTATATACTACAGTTACTTGGCATGACAGCCAGCGCAGTTGCAGCTCTGGTCTCATGACCTCCTC
 CATTGTGTCTGTGGTGGGCTCTTTGTACCTGGCCTACATTCTGTACTTTGTGCTGAAAGAGTTTTGCATC
 ATCTGCGTCACCATATGTGCTGAACTTCCTCCTCCTCATCATCAATTACAAACGACTAGTTTATTGTA
 ATGAGGCCTGGAAGCGACAGCTGCAGCCTAAGGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215687 representing NM_027121
 Red=Cloning site Green=Tags(s)
 MAAPVLLRVSPRWERVARYAVCAAGILLSIYAYHVEREKERDPEHRALCDLGPWVKCSAALASRWGRG
 GLLGSIFGKDGVLNQPNSVFLIFYLQLLGMTASAVAALVLMTSSIVSVVGSLYLAYILYFVLKEFCI
 ICVTYYVLFNLLLIINYKRLVYLNEAWKRQLQPKED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

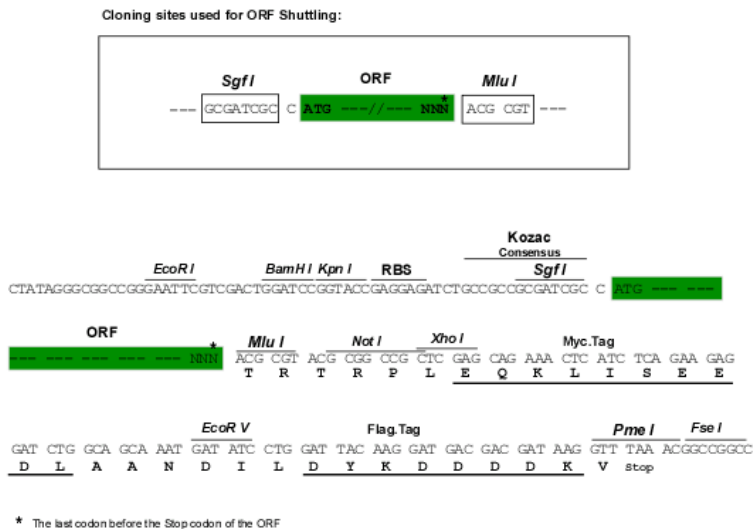
Chromatograms: https://cdn.origene.com/chromatograms/mm9028_c04.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027121

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_027121.4](#), [NP_081397.1](#)

RefSeq Size: 1113 bp

RefSeq ORF: 531 bp

Locus ID: 69568

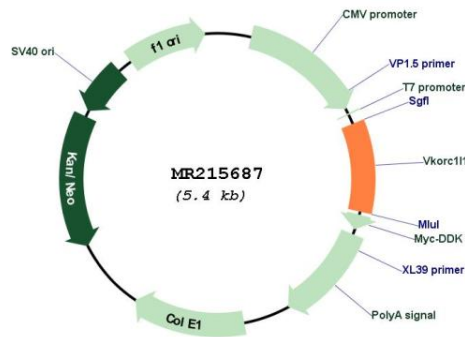
UniProt ID: [Q6TEK5](#)

Cytogenetics: 5 G1.3

MW: 20.2 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]

Product images:



Circular map for MR215687