

Product datasheet for MR220317

Kcnrg (NM_206974) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnrg (NM_206974) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnrg
Synonyms: Cllid4; E030012H22Rik; Gm745
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220317 representing NM_206974
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTGGTCAGGACCTCGTCACCTTTGAATGTGGGAGGGAGGATATTCACAACAAGGCCCTCTACCCCTCA
 AGCAGTCCCTGCCTCTCGCTTGGCAGGCATGTTAGATGGCAGAGACCAAGAGTTCAAGACAGTTGATGG
 CCAGATTTTGTGGACAGAGATGGTCTTTATTTAGTTTCATTTTAGATTTTTGAGAAATCATGAGCTT
 CTGTTACCCTCGACTTTCAGACCATCATAGGCTTCAGAGAGAGGCTCTTTTCTATGAAGTTGATTCTC
 TTGTTGATCTCTAAGCCAATTCCTGCTCCAATCAAGATCTGCTGTCATGGAGGTCCATTTCCTAAACCA
 AAATACTCAAGCCTTCTTCAGAGTGTGGCTCTTGCAGCAAAACAATCGAGATGCTAAGTGGGAGGATT
 ACAATGTTTGTAGAGCGACCCACAGCACTGACCGGAAACAGGAATCCCTCTGGCTTTACCTCCACAAA
 GACCTTCTCACCAGATCTGCTTTTCCACTGTGGCTCCGATGGCGCTGCTGAGAACAAGCTGGAGTCAG
 GTATTTTGAATGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220317 representing NM_206974
 Red=Cloning site Green=Tags(s)

MSGQDLVTLNVGGRIFFTRPSTLTKQFPASRLAGMLDGRDQEFKTVDGQIFVDRDGFALFSILDFLRNHEL
 LLPSPDFADHRLQREALFYELDSLVDLLSQFLLQSRSAVMEVHFLNQNTQAFFRQVFGSCSKTIEMLSGRI
 TMFVERPTALTGNRNSPLALPPQRPSHHDLLFHCGSDGAAENQAGVRYFEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Chromatograms: https://cdn.origene.com/chromatograms/mm9038_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_206974

ORF Size: 573 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_206974.1](#), [NP_996857.1](#)

RefSeq Size: 1832 bp

RefSeq ORF: 576 bp

Locus ID: 328424

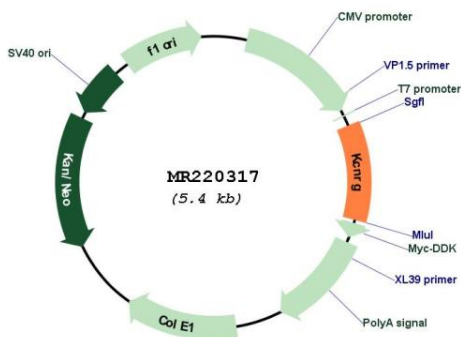
UniProt ID: [Q2TUM3](#)

Cytogenetics: 14 D1

MW: 22 kDa

Gene Summary: Inhibits potassium fluxes in cells. May regulate Kv1 family channel proteins by retaining a fraction of channels in endomembranes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220317