

Product datasheet for **MG220317**

Kcnrg (NM_206974) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnrg (NM_206974) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kcnrg
Synonyms: Cll4; E030012H22Rik; Gm745
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220317 representing NM_206974
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTGGTCAGGACCTCGTCACCTTTGAATGTGGGAGGGAGGATATTCACAACAAGGCCCTCTACCCCTCA
 AGCAGTCCCTGCCTCTCGCTTGGCAGGCATGTTAGATGGCAGAGACCAAGAGTTCAAGACAGTTGATGG
 CCAGATTTTGTGGACAGAGATGGTCTTTATTTAGTTTCATTTAGATTTTTTGAGAAATCATGAGCTT
 CTGTTACCCTCGGACTTTCAGACCATCATAGGCTTCAGAGAGAGGCTCTTTTCTATGAAGTTGATTCTC
 TTGTTGATCTCTAAGCCAATTCCTGCTCCAATCAAGATCTGCTGTCATGGAGGTCCATTTCTAAACCA
 AAATACTCAAGCCTTCTCAGAGTGTGGCTCTTGCAGCAAAACAATCGAGATGCTAAGTGGGAGGATT
 ACAATGTTTGTAGAGCGACCCACAGCACTGACCGGAACAGGAATCCCTCTGGCTTTACCTCCACAAA
 GACCTTCTACCACGATCTGCTTTTCCACTGTGGCTCCGATGGCGCTGCTGAGAACAAGCTGGAGTCAG
 GTATTTTGAATGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG220317 representing NM_206974
 Red=Cloning site Green=Tags(s)

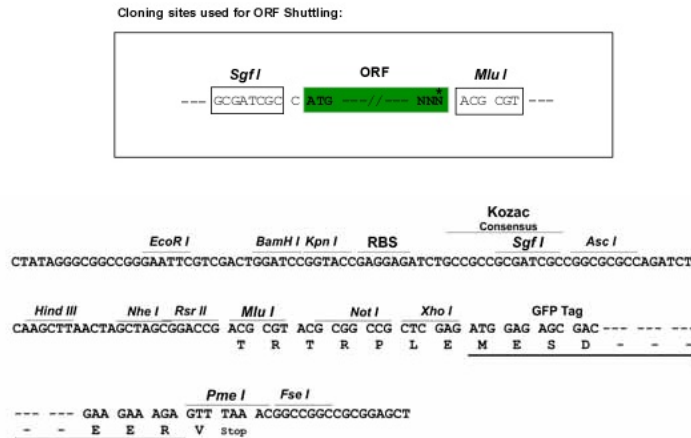
MSGQDLVTLNVGGRIFTTRPSTLTKQFPASRLAGMLDGRDQEFKTVDGQIFVDRDGALFSFILDFLRNHEL
 LLPSDFADHRLQREALFYELDSLVDLLSQFLLQSRSAVMEVHFLNQNTQAFFRVFGSCKTIEMLSGRI
 TMFVERPTALTGNRNSPLALPPQRPSHHDLLFHCSDGAAENQAGVRYFEC

TRTRPLE - GFP Tag - V

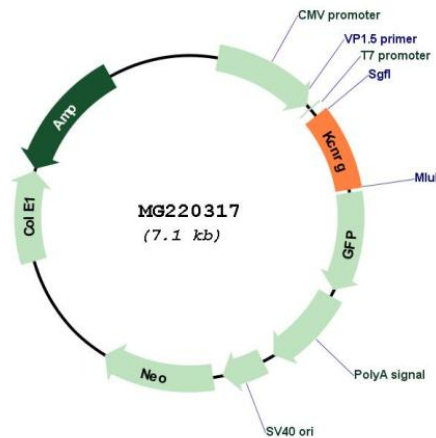
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



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

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]