

Product datasheet for **MG220605**

Kcnrg (NM_001039105) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnrg (NM_001039105) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnrg
Synonyms:	Cllld4; E030012H22Rik; Gm745
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220605 representing NM_001039105 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGGTCAGGACCTCGTCACTTTGAATGTGGGAGGGAGGATATTCACAACAAGGCCCTCTACCCCTCA
AGCAGTCCCTGCCTCTCGCTTGGCAGGCATGTTAGATGGCAGAGACCAAGAGTTCAAGACAGTTGATGG
CCAGATTTTGTGGACAGAGATGGTGCTTTATTTAGTTTCATTTTAGATTTTTGAGAAATCATGAGCTT
CTGTTACCCTCGGACTTTCAGACCATCATAGGCTTCAGAGAGAGGCTCTTTTCTATGAAGTTGATTCTC
TTGTTGATCTCTAAGCCAATTCCTGCTCCAATCAAGATCTGCTGTCATGGAGGTCCATTTCTAAACCA
AAATACTCAAGCCTTCTCAGAGTGTGGCTCTTGCAGCAAAACAATCGAGATGCTAAGTGGGAGGATT
ACAATGTTTGTAGAGCGACCCACAGCACTGACCGGAACAGGAATCCCTCTGGCTTTACCTCCACAAA
GACCTTCTCACCAGATCTGCTTTTCCACTGTGGCTCCGATGGCGCTGCTGAGAACCAAGCTGGAGTCAG
GTACATTTCCATAAAGCCTGATAATCGAAAATTGGCCAACGGAACAAATGTCTTGGGCCTACTGGTGGAC
ACTTTATTAAGGAAGGCTTTTCTGCTGAGCACTAGAACACCAGCCTCTGGAGAAAAAAGTGAATGCT
ATGTCTTTGAAAGGATAACAACCCCTCAAGTCCTGGGATGAGTAAAACACCCAAATCAGAACTACCAC
CATGCCAGCGCCGCTCAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220605 representing NM_001039105
Red=Cloning site Green=Tags(s)

MSGQDLVTLNVGGRIFFTRPSTLKQFPASRLAGMLDGRDQEFKTVDGQIFVDRDGLFSFILDFLRNHEL
 LLPSPDFADHRLQREALFYELDSLVDLLSQFLLQSRSAVMEVHFLNQNTQAFFRVFGSCSKIEMLSGRI
 TMFVERPTALTGNRNSPLALPPQRP SHHDLLFHC GSDGAAENQAGVRYISIKPDNRKLANGTNVLGLLVD
 TLLKEGFHLVSTRTPASGEKSECYVFERITTPQVLGMSKTPKSETTTMPAPSQK

TRTRPLE - GFP Tag - V

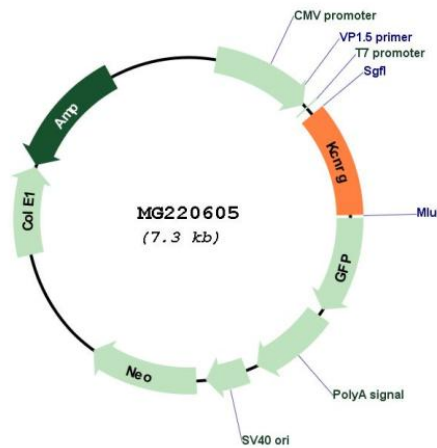
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001039105

ORF Size: 792 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:	NM_001039105.3 , NP_001034194.1
RefSeq Size:	1798 bp
RefSeq ORF:	795 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]