

Product datasheet for **RG207143**

KCNRG (NM_173605) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNRG (NM_173605) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNRG
Synonyms:	DLTET
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207143 representing NM_173605 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTAGTCAGGAAGTGGTCACTTTGAATGTGGGAGGGAAGATATTCACGACAAGGTTTTCTACGATAA
AGCAGTTTCCTGCTTCTCGTTTGGCACGCATGTTAGATGGCAGAGACCAAGAATCAAGATGGTTGGTGG
CCAGATTTTGTAGACAGAGATGGTGATTTGTTTAGTTTCATCTTAGATTTTTGAGAACTACCAGCTT
TTATTACCACTGAATTTTCAGACTATCTTAGGCTTCAGAGAGAGGCTCTTTTCTATGAACTTCGTTCTC
TAGTTGATCTCTTAAACCCATACCTGCTACAGCCAAGACCTGCTCTTGTGGAGGTACATTTCTAAGCCG
GAACACTCAAGCTTTTTTCAGGGTGTGGCTCTTGACAGAAAACAATTGAGATGCTAACAGGGAGGATT
ACAGTGTTTACAGAACAACCTTCAGCGCCGACCTGGAATGGTAACTTTTCCCTCCTCAGATGACCTTAC
TTCCACTGCCTCCACAAAGACCTTCTTACCATGACCTGGTTTTCCAGTGTGGTCTGACAGCACTACTGA
TAACCAAACTGGAGTCAGGTATGTTTCTATAAAACCTGATAACCGAAAATTGGCCAACGGAACAAATGTC
CTCGGCTTACTGATTGACACTTTATTAAGGAAGGCTTTCATTTGGTCAGCACTAGAACAGTATCTTCTG
AAGACAAAAGTGAATGCTATAGCTTTGAAAGGATAAAAAGCCCTGAAGTGCTCATCACGAATGAAACACC
AAAACCAGAGACTATCATCATACCAGAGCAATCTCAGATAAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207143 representing NM_173605
 Red=Cloning site Green=Tags(s)

MSSQELVTLNVGGKIFTRFSTIKQFPASRLARMLDGRDQEFKMGVGGQIFVDRDGLFSFILDFLRTHQL
 LLPTEFSDYLRQLREALFYELRSLVDLLNPYLLQPRPALVEVHFLSRNTQAFFRVFGSCSKIEMLTGRI
 TVFTEQPSAPTWNGNFFPPQMTLLPLPQRPSTYHDLVFQCGSDSTTDNQTGVRYYSIKPDNRKLANGTNV
 LGLLIDTLLKEGFHLVSTRTVSSEDKTECYSEFERIKSPEVLITNETPKPETIIPEQSQIKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173605

ORF Size: 816 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_173605.2](#)

RefSeq Size: 1527 bp

RefSeq ORF: 819 bp

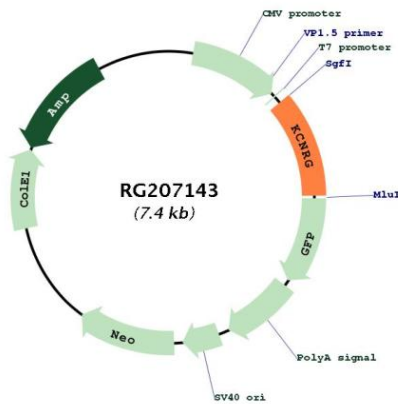
Locus ID: 283518

UniProt ID: [Q8N5I3](#)

Cytogenetics: 13q14.2

Gene Summary: This gene encodes a protein which regulates the activity of voltage-gated potassium channels. This gene is on chromosome 13 and overlaps the gene for tripartite motif containing 13 on the same strand. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG207143