

Product datasheet for **RC207143**

KCNRG (NM_173605) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNRG (NM_173605) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNRG
Synonyms:	DLTET
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207143 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTAGTCAGGAAGTGGTCACTTTGAATGTGGGAGGGAAGATATTCACGACAAGGTTTTCTACGATAA
AGCAGTTTCCTGCTTCTCGTTTGGCACGCATGTTAGATGGCAGAGACCAAGAATCAAGATGGTTGGTGG
CCAGATTTTTGTAGACAGAGATGGTGATTTGTTTAGTTTCATCTTAGATTTTTGAGAACTACCAGCTT
TTATTACCACTGAATTTTCAGACTATCTTAGGCTTCAGAGAGAGGCTCTTTTCTATGAACCTCGTTCTC
TAGTTGATCTCTTAAACCCATACCTGCTACAGCCAAGACCTGCTCTTGTGGAGGTACATTTCTAAGCCG
GAACACTCAAGCTTTTTTCAGGGTGTGGCTCTTGACAGAAAACAATTGAGATGCTAACAGGGAGGATT
ACAGTGTTTACAGAACAACCTTCAGCGCCGACCTGGAATGGTAACTTTTCCCTCCTCAGATGACCTTAC
TTCCACTGCCTCCACAAAGACCTTCTTACCATGACCTGGTTTTCCAGTGTGGTTCTGACAGCACTACTGA
TAACCAAACTGGAGTCAGGTATGTTTCTATAAAACCTGATAACCGAAAATTGGCCAACGGAACAAATGTC
CTCGGCTTACTGATTGACACTTTATTAAGGAAGGCTTTCATTTGGTCAGCACTAGAACAGTATCTTCTG
AAGACAAAAGTGAATGCTATAGCTTTGAAAGGATAAAAAGCCCTGAAGTGCTCATCACGAATGAAACACC
AAAACCAGAGACTATCATACACCAGAGCAATCTCAGATAAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC207143 protein sequence
 Red=Cloning site Green=Tags(s)

MSSQELVTLNVGGKIFTRFSTIKQFPASRLARMLDGRDQEFKMGVGGQIFVDRDGLFSFILDFLRTHQL
 LLPTEFSDYLRLQREALFYELRSLVDLLNPYLLQPRPALVEVHFLSRNTQAFFRVFGSCSKTIEMLTGRI
 TVFTEQPSAPTWNGNFFPPQMTLLPLPPQRPSTYHDLVFQCGSDSTTDNQTGVRYYSIKPDNRKLANGTNV
 LGLLIDTLLKEGFHLVSTRTVSSEDKTECYSEFERIKSPEVLITNETPKPETIIPEQSQIKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6020_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

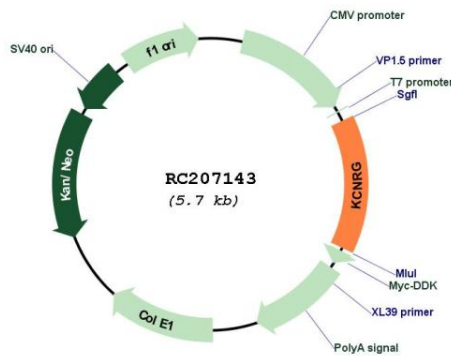
UniProt ID: [Q8N5I3](#)

Cytogenetics: 13q14.2

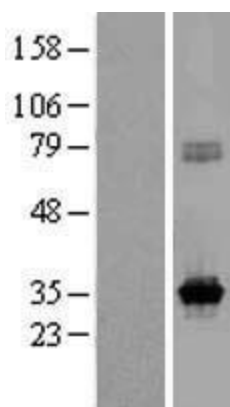
MW: 31 kDa

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]

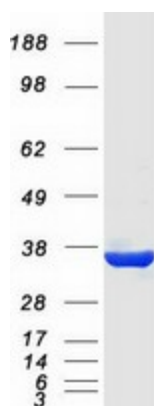
Product images:



Circular map for RC207143



Western blot validation of overexpression lysate (Cat# [LY404578]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC212086] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified KCNRG protein (Cat# [TP307143]). The protein was produced from HEK293T cells transfected with KCNRG cDNA clone (Cat# RC207143) using MegaTran 2.0 (Cat# [TT210002]).