

Product datasheet for **RR211444**

Kcna5 (NM_012972) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcna5 (NM_012972) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcna5
Synonyms:	Kv1; Kv1.5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR211444 representing NM_012972
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATCTCCCTGGTGCCCTGGAGAATGGCAGTGCCATGACCCTCAGAGGAGGAGGGGAGGCAGGGG
 CAAGCTGTGTGCAGACCCAGGGGAGAGTGTGGGTGCCCTCCGACGTCTGGACTCAATAATCAGTCCAA
 AGAAACACTGTTGAGGGGGCGCACACGCTCGAGGATGCGAACCAGGGTGGACGGCCTTTGCCCCCTATG
 GCTCAGGAGCTGCCACAACCTAGAAGGCTACTGCTGAGGATGAGGAGGGAGAAGGCGACCTGGCCTGG
 GCACAGTGGAGGAGACCAGGCTCCTCAGGATGCAGGGTCACTCCATCACCAGCGAGTCTCATAAACAT
 CTCGGGTTGCGTTTCGAGACGCAGCTGGGCACCCTGGCACAGTTTCCAAACACCCTCTGGGGACCCA
 GCCAAGCGCTGCACTACTTCGACCCCTTGAGAAATGAATACTTCTTCGACCGCAACCGGCCAGCTTCG
 ATGGCATTGTACTACTACCAGTCTGGGGCCGCTGCGCAGGCCGTCATGTCTCCCTGGATGTGTT
 TGCAGATGAGATCCGCTTTTACCAGCTGGGGGACGAGGCCATGGAGCGCTTCGGGAGGATGAGGGCTTC
 ATCAAGGAAGAGGAGAAGCCCTGCCCCGCAACGAGTTCAGCGCCAGGTATGGCTATCTTGAATACC
 CAGAAAGCTCTGGGTCCGCAAGAGCCATCGCCATAGTGTCCGTCCTGGTATTCTCATCTATCATCAC
 CTTCTGCCTGGAGACTCTGCCTGAGTTCAGGGATGAGCGGGAGCTGCTACGCCATCCCCAGTGCCGCC
 CAGCCCCAGCCCTGCCCTGGGATCAATGGCAGCGTCTCTGGAGCACTTCTCTGGCCCTACGGTGG
 CTCCACTCTTGCTAGGACACTGGCCGATCCATTTCTTCATCGTGGAGACCACATGTGTGATCTGGTTCAC
 TTTTGAGTTGCTCGTGCCTTCTTTCCTGCCCCAGCAAGGCAGAATTCTCTCGGAATATCATGAACATC
 ATCGATGTCGTGGCCATTTCCCTACTTTATCACCTGGGACCGAGCTGGCAGAGCAACAACCCAGGGG
 GAGGGGGTCAAGATGGGACGAGGCCATCCCTAGCCATCCTCAGGGTATCCGCTGGTGGGGTGTGTT
 TCGGATCTTCAAGCTCTCCCGCCACTCCAAGGGACTGCAGATCCTGGGTAAAGACCTTGCAAGCATCCATG
 CGGAACTCGGGTACTCATCTTCTTCTTCTTATTGGAGTCATCCTTCTTCTCCAGCGCTGTCTACTTCCG
 CAGAGGCAGACAATCACGGGTCCATTTCTCTAGTATCCCAGATGCCTTCTGGTGGGAGTGTACTACTAT
 GACCACTGTAGGCTATGGAGACATGAGACCCATCACTGTAGGGGGCAAGATCGTGGGTTCACTGTGCGCC
 ATAGCTGGGGTCTCACCATTGCCCTGCCTGTCCCGTCACTCGTCTCCAACCTTAATTACTTCTATCATC
 GGGAGACAGACCAGGAGCAGGCTGCCCTGAAGGAAGAACAAGGCAACCAGAGCGGGAGTCTGGGCT
 GGACACAGGGGTCAACGGAAGGTGAGTGCAGCAAGGCCTCTTTTGAAGACTGGGGTTCCTGGAG
 AGTTCTGACAGTATCAGAAGGGTGTGCTCTAGAAAAGTGTACCTCAAGGCAAGAGCAACGTGG
 ACTTGGGAGGTCCTGTATGCCCTGTCTGGACTAGCCGTGAAACAGATTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR211444 representing NM_012972
 Red=Cloning site Green=Tags(s)

MEISLVPLENGSAMPLRGGGEAGASCVQTPRGECPPTSGLNNQSKETLLRGRITLEDANQGRPLPPM
 AQELPQPRRLSAEDEEGDPGLGTVEEDQAPQDAGSLHHQRVLEINISGLRFETQLGTLAQFPNTLLGDP
 AKRLHYFDPLRNEYFDRNRPSFDGILYYYQSGGRLRRPVNVSVDVFADEIRFYQLGDEAMERFREDEGF
 IKEEEKPLPRNEFQRQVWLIFEYPESSGSARAIIVSVLVILISIIITFCLETLPEFRDERELLRHPPVPP
 QPPAPAPGINGSVSGALSSGPTVAPLLPRTLADPFFIVETTCVIWTFELLVRRFFACPSKAESRNIMNI
 IDVVAIFPYFITLGTAEQQPGGGQNGQQAMSLAILRVIRLVRFVIFKLSRHSKGLQILGKTLQASM
 RELGLLIFFLFVILFSSAVYFAEADNHGSHFSSIPDAFWAVVTMTTVGYGDMRPIITVGGKIVGSLCA
 IAGVLTIALPVPVIVSNFNFYHRETDHEEQALKEEQGNQRRESGLDTGGQRKVSCKASFCKTGGSL
 SSDSIRRGSCPLEKCHLKAKSNVDLRRSLYALCLDTSRETDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

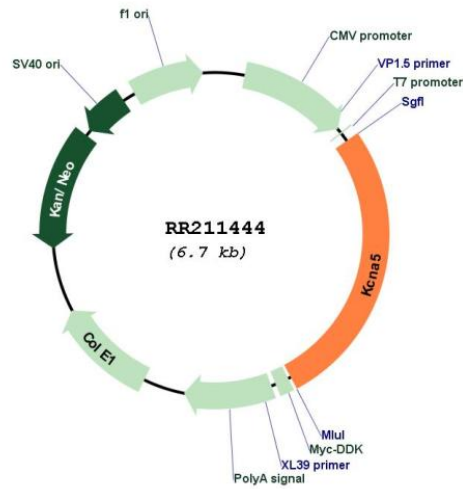
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_012972

ORF Size: 1806 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_012972.1 , NP_037104.1
RefSeq Size:	1809 bp
RefSeq ORF:	1809 bp
Locus ID:	25470
UniProt ID:	P19024
Cytogenetics:	4q42
MW:	66.6 kDa
Gene Summary:	voltage gated potassium channel; functions as a delayed rectifier-like K ⁺ channel [RGD, Feb 2006]