

Product datasheet for **RR200169**

Kcnc2 (NM_139216) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnc2 (NM_139216) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnc2
Synonyms:	KShIIIA; Kv3.2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200169 representing NM_139216
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCAAGATCGAGAACAACGAGAGGGTGATCCTCAATGTCGGAGGCACCAGGCACGAAACCTACCGCA
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 GACTGCTGCGGGTGACAAGCTGCAGCCGCTGCCCCCTCCGCTGTCTCCACCGCCGCGACCGCTCCCTTG
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Protein Sequence:

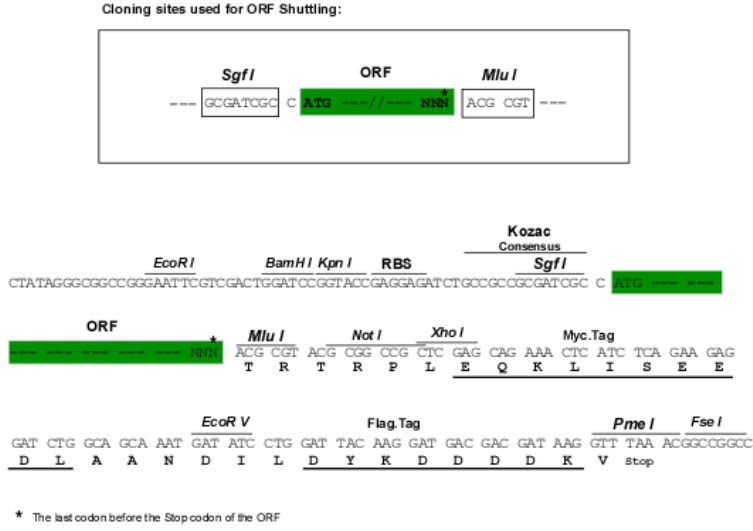
>RR200169 representing NM_139216
 Red=Cloning site Green=Tags(s)

MGKIENNERVILNVGGTRHETYRSTLKTLPGTRLALLASSEPGDCLTAAGDKLQPLPPPLSPPPRPPPL
 SPVPSGCFEGGAGNCSSHGGNGSDHPGGGREFFFDRHPGVFAYVLYNYRTGKLGKLPADVCGPLFEEELAF
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 FKNIPIGFWAVVTMTTLGYGDMYPQTSWGMVLGALCALAGVLT IAMPVPVIVNNFGMYSSLAMAKQLP
 RKRKKHIPPAPLASSPTFCKTELNMACNSTQSDTCLGKENRLLLEHNSVLSGDDSTGSEPPLSPPERLPI
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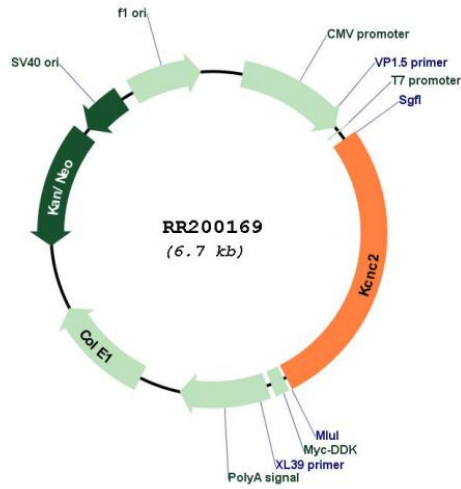
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Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_139216

ORF Size: 1839 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_139216.1 , NP_631962.1
RefSeq Size:	3064 bp
RefSeq ORF:	1842 bp
Locus ID:	246153
UniProt ID:	P22462
Cytogenetics:	7q22
MW:	67.6 kDa
Gene Summary:	a voltage-gated K ⁺ channel; functions as a delayed rectifier-type K ⁺ channel activated by large membrane depolarizations [RGD, Feb 2006]