

Product datasheet for **RR207611**

Kcng4 (NM_001107435) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcng4 (NM_001107435) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcng4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR207611 representing NM_001107435
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCATGTCTTCCCGAGGCAGGGACCTGCATCCTGGACATCATCACTTTGGCCCTGCAGCCCTTGA
 CCCAGTTCCTGGCCTGGCCCGGAGCCTCAGTCAGTCAAAGGCCTCTACTACCGCAGGGCCCGAAGGTGAG
 CACCTTGATGCCTCTCCAGAGGCCAACCTGAAGGAGATCCTGGTGAACGTGGGTGGCCAGCGGTACCTG
 CTGCCCTGGAGCACCTGGATGCCTTCCCGCTGAGCCGCCTGAGCCGGCTCCGGTTGTGCCCGAGTTATG
 AGGAGATCACACAGCTCTGTGATGACTACGATGAGAACAGCCAGGAGTTCTTCTTTGACAGGAACCCAG
 CGCCTTTGGGTGATCGTGAAGTCTCTGGCCCGGGAAAGCTGGTGTCTGCGAGAGATGTGCCCTG
 TCCTTCCGGGAGGAGCTGAGCTACTGGGCATCGAGGAAGCCAACTGGAGCGTGTGTCTACGAAAC
 TGCTGAAGAAGCTGGAGGAGCTGCCGAGCTGCCCGGGAGGAGCCGCCAGCCAGCAGCAGCGCCA
 GGCTGCCACTCCGAAGTGCAGGCTTCGGGATGGGCCCGCAGCATGAACCAGCTGCGGGAGATGGTGGAG
 GACCCACAGTCAGGGCTGCCCGGAAGGTCTTCGCTTGCCTCTCCGTTCTCTTCTGTGGAACACCGCTG
 TCAGCCTGTGTGTGAGCACCATGCCGACTTCAGGGCTGAGGAGGACAAGGGAGAATGCGTAGAAAGTG
 CTAATACATCTTCGTTGGTGGAGACCATCTGTGTGGCCTGGTTCTCCCTGGAGTTTTCCTGCGCTTTGTC
 CAGGCCCGAACAATGTGAGTCTTCCGCGGGCCCTGAATGTCATCGACATCTAGCCATCTCCCAT
 ACTACGTGTCGCTCGCGGTGTCTGATGAGTCCCGGAGGCAGGTGAGAGGCCGAGTGGCAGCTCTACCT
 GGAGAAAGTGGGGCTGGTGTGCTGCTGTTCTGCGGGCACTGCGCATCTCTATGTGATGCGCTGGCCCGC
 CACTCGCTGGGGTGCAGACGCTGGCCCTCACTGTGCGCCGCTGCGCCGAGAGTTTGGCCTCTTGCTGC
 TCTTTCTGGGTGTGGCGGTTACCTTTTTCTCTCTTTGGTCTATGTGGCTGAGAATGAGTCCGGAAGGGT
 CCTGGAGTTCAGTACATCCCGCGTCTATTGGTGGCCATCATCTCCATGACCACGGTGGGCTATGGG
 GACATGGTCCCTCGTAGCGTGCCGGGACAGATGGTGGCTCTGAGCAGCATCCTTAGCGGGATCCTCATCA
 TGGCTTTCCAGCCACATCCATCTTCCACACGTTCTCTACTCTACTTGGAGCTGAAGCGGGAGCAGGA
 GCAGGTCCAGGCCCGCTCCGGGCTTTCAGAACAAATTCAGCCAGCGAACGGGAGCTCTGAGTGAC
 GTAGATGACCTGGCCCCGAGGACCTGACCTCCCCAGGCCGCTACATG

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207611 representing NM_001107435
 Red=Cloning site Green=Tags(s)

MPSSRGRDLHPGHHFGPCSPLTQFWGPPEPQSVKGLYYRRARKVSTLDASPEANLKEILVNVGGQRYL
 LPWSTLDAFPLSRLSRLRLCRSYEEITQLCDDYDENSQEFFFDNRNPSAFGVIVSFLAAGKLVLLREMCAL
 SFREELSYWGIEANLERCCLRKLLKLEEAELRREEAQRQQRQACHSEVQASRWARSMNQLREMVE
 DPQSGLPKVFACLSVLFVATTAVSLCVSTMPDFRAEEDKGEARKCYIFVVTETICVAFSLEFCLRFV
 QAPNKCQFFRGLNVIDILAI SPYYVSLAVSDESPEAGERPSGSSYLEKVGLVLRVLRALRILYVMRLAR
 HSLGLQTLGLTVRRCAREFGLLLFLGVAVTLFSPLYVAENESGRVLEFTSIPASYWWAII SMTTVGYG
 DMVPRVPGQMVALLSSILSGILIMAFPATSI FHTF SHSYLELKRQEQQVQARLRRLQNNNSASERELLS
 VDDLAPEDLTSPGRYM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

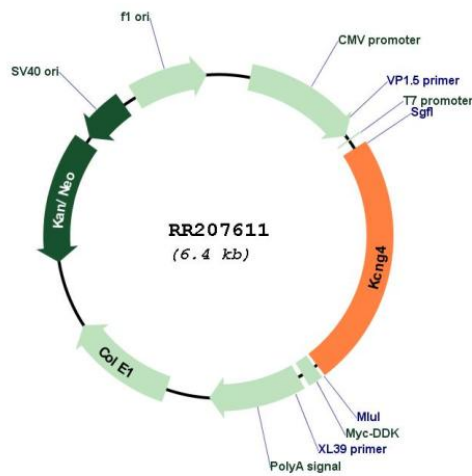
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001107435

ORF Size:

1518 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_001107435.1](#), [NP_001100905.1](#)

RefSeq Size: 4083 bp

RefSeq ORF: 1521 bp

Locus ID: 307900

Cytogenetics: 19q12

MW: 57.3 kDa