

Product datasheet for **RR207262**

Kcng2 (NM_001107372) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcng2 (NM_001107372) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcng2
Synonyms:	Kv6.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR207262 representing NM_001107372
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGGCTCCCGGGCACCCGGAGGTCCCGGCGCCGAGCCTGGCAGCGCAGTCCGAGGGGGCCGAG
 GCGGCCGCGGGGCCCGGGCGGCCACGTATAATCAACGTCGGGGCTGCAGGGTGCCTTGGCCGGGC
 TGCGCTGGCCCGTGTCCCTGGCTCGCTCGAGCGCCTGCGAGCCTGCCGCGGCCACGACGAGCTGCTG
 CGCGTGTGTGACGACTACGACGTGAGCCGCGACGAGTTCTTTCGACCGCAGCCGTGCGCTTTCCGCG
 CCATCGTGGCGCTGCTGCGCGCCGGAAGCTGAGGCTGCTGCGCGCCCGTGGCCCTGGCCTTCCGGGA
 CGAGCTGGCCTACTGGGGCATCGACGAGGCGCGCTGGAGCGCTGCTGCCTGCGCCGTGCGCCGTGCG
 GAGGAGGAGGCCCGGAGGCGAGGGCCACGCCGCCCGCCGAGGGCCGACAGCCAGCCCCGGCCGAGCCC
 TGGGGAGCGGGCGGCTGGAGCGAGGCCACGGCGCCTGCGCGACGTGGTGGAGAACCCTCCGGGCT
 GCGGGCAAGCTTTCGCTACGTCTCCGTGGCCTTCGTGGCCGTACGCGCCGTGGCCCTGTGCCTGAGC
 ACCATGCCTGAGTCCGCGCAGAGGAGAAAGGGGCGAGTGTCCACCAAGTCCGCAACCTTTCGTGT
 TGGAGACAGTGTGCGTGGCCTGGTTCTCCTTCGAGTTCCTGCTGCGCTCCCTGCAAGCCGAGAGCAAGT
 CGCCTTCTCCGTACGCCTTTGCCATCATCGACATCCTGGCCATCCTGCCCTTCTACGTGTCGCTGCTC
 GCGGGACTGGCCCGAGGGCCACGGGCAGCAAGATGCTGGAACGCGCGGGGCTGGTACTGCGGCTACTGC
 GGGCGTGCCTGCTACGTGATGCGCCTGGCGGCCACTCGCTGGGGTACGCTCGCTTGGCCTCAC
 CGTGGCCCGTGGCGCGCGAGTTCCGACTGCTGCTGCTTCTCCTGCGTGGCCATGGCGCTTTCGCG
 CCGCTCGTGCACCTGGCTGAGCGCGAGCTGGGCGCTCACCGGACTTCTCCAGCGTCCCCGCCAGCTACT
 GGTGGCGAGTCATCCATGACCACCGTGGGCTATGGAGACATGGTCCACGACGCTTCCGGGCCAGGT
 GGTGGCGCTGAGCAGCATCCTCAGCGCATCCTGCTCATGGCCTTCCCTGTACCTCCATCTTCCACACC
 TTCTCGCGCTCCTACTCGGAGCTCAAGGAGCAGCAGCAACGCGCGGCCAGCCCTGAACCGGTCTGCGGG
 AGGACAGCACACGCGACGACAGCACGCGTTTCGGCCAGCGCCACCGAGGACAGCTCCAGGACCCGGAGAC
 CGCAGGTGCCGAGGAGCTTCCAGGCCCGGTGGGACCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207262 representing NM_001107372
 Red=Cloning site Green=Tags(s)

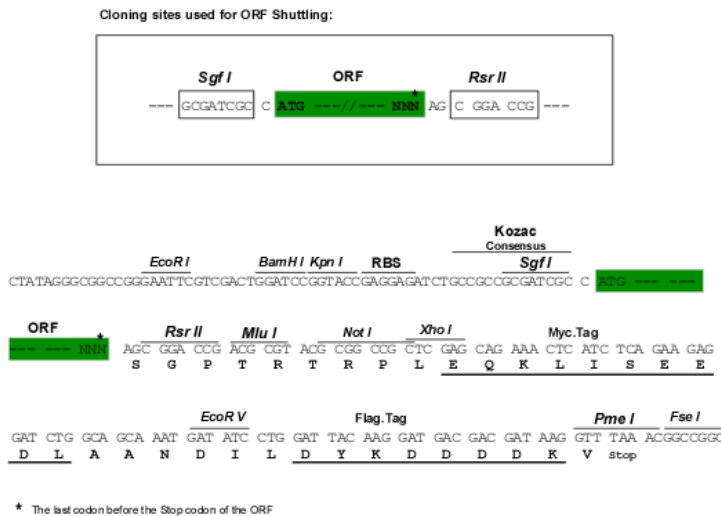
MARLPGHPEVPGAEPGSAVRGGRGRGARARHVIINVGGCRVRLAWAALARCPLARLERLRACRGHDELL
 RVCDDYDVSRDEFFFDSPCAFRAIVALLRAGKLRLLRGPCALAFRDELAYWGIDEARLERCCLRRLRRR
 EEEAAEARATPPARGPQTSRGRALGSRLEGRRRRLRDVVENPHSGLAGKLFAYVSVAFVAVTAVGLCLS
 TMPDVRAEEEREGECSTKCRNLFVLETVCVAVWFSEFLLRSLQAESKCAFLRTPLAIIDILAILPFYVSL
 AGLAAGPTGSKMLERAGLVLRLLRALRVLYVMRLARHSLGLRSLGLTVRRCAREFGLLLLFLCVAMALFA
 PLVHLAERELGAHRDFSSVPASYWAVISMSTTVGYGDMVPRSLPGQVVALSSILSGILLMAFPVTSIFHT
 FRSYSELKEQQRAASPEPVLREDSTRDDSTRSASATEDSSQDPETAGAAGSLPGPVGP

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



ACCN: NM_001107372

ORF Size: 1440 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_001107372.1](#), [NP_001100842.1](#)

RefSeq Size: 1838 bp

RefSeq ORF: 1443 bp

Locus ID: 307234

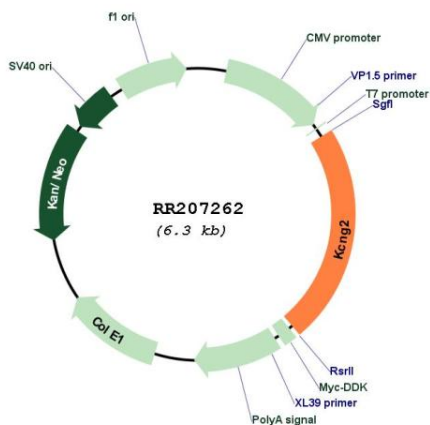
UniProt ID: [Q9QYU3](#)

Cytogenetics: 18q12.3

MW: 52.5 kDa

Gene Summary: Potassium channel subunit. Modulates channel activity by shifting the threshold and the half-maximal activation to more negative values (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR207262