

Product datasheet for **RR213732**

Kcns1 (NM_053954) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcns1 (NM_053954) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcns1
Synonyms:	Kv9.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR213732 representing NM_053954
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGAGCGAGTTTCCGGTCCGGCTCTCGGGTCCCCTGGCGCCAAGGGACGAGGCGCTGCGCGTGA
 ACGTGGGCGGAGTGCGGGGCTGCTGAGCGCGCGCCCTCGCGGATTCCCGGGCACGCGGCTGGGCCG
 CCTACAGGCGCGGTGTCCGAGGAGCAGCGCGCGCCTATGCGACGACTACGACGCGCGCGCGCGAG
 TTCTACTTCGATCGGCACCCGGCTTCTTCTCGGCTGCTGCACTTCTACCGCACCGGGCACTTGCATG
 TGCTGGACGAGCTGTGCGTCTTCGCTTTCGGCCAGGAGGCTGACTATTGGGGCTGGGCGAGAACGCTCT
 GGCCACGTGCTGCCGCGCGCTACCTGGAGCGGCGTGTACGCGGCTCGCGCTGGGACGAGGACAGC
 GATGCCCCGAGCAGCGTGGACCCGTGTCCGACGAGATCTCCGACGTGCAGCGGAGCTGGCGCGTATG
 GTGGGCCCGCTGTGGTGCCTGCGCCGCTCGCTTGGCTCACCATGGAGAACCCTGGCTACTCGTGCC
 CAGCAAGCTTTCAGCTCGTGTCCATCGCGTGGTGTGCTCGCTCCATCGCTGCCATGTGCATCCACAGC
 CTGCCCGAGTACCAAGCCCGGGAGGCAGCGCGCGGTGGCTGCAGTGGCCGCGGGTGCAGCGCAGAGG
 ACGTGCGCGACGACCCGGTGTGCGCGCCTGGAGTACTTCTGCATCGCCTGGTTCAGCTTCGAGGTGTC
 GTCGCGCTGCTGCTGGCTCCCAGCACGCGCAACTTCTTCTGCCATCCGCTCAACCTCATCGACATCGTG
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 AGGAGCTCGGAGACCTAGGAAAGGTGGTACAAGTGTTCGCTCATGCGCATCTTCCGCTGCTCAAGCT
 GGCCCGCACTCTACCGGCTGCGCTCTCTGGGCGCCAGCTCAAGCACAGCTACCGTGAAGTGGGCATC
 TTAAGTGTACTGGCGTGGTGTGTGAGTGTCTCTGGCGTGGCTACACAGCCGAAGAAAAGAACG
 TGGCTTCGACACGATCCCCGCTGCTGGTGGTGGGACCGTGCATGACCACAGTGGCTATGGGGA
 TGTGGTCCCGGAGACTGTGGCAGGCAAGCTGGCAGCCTCTGGCTGCATCCTGGGGGCATCCTGGTGGT
 GCCCTCCCATCACCATCATCTTCAACAAGTTTTCCCACTTTTACCGGCGCCAGAAGGCACTGGAGCGG
 CCGTGGGAGCAGCGCCAGCGGAGTTTGAAGACTTGTGAGCAGTGTGGATGGCGTATCAGACGTGTC
 TCTGGAACATCCAGAGAGACTTCTCAGGAAGGGCGCTCCACAGACCTGGAGACCAAGCCCCAGTGAG
 CCTGCAAATCTCACAGTTAT

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213732 representing NM_053954
 Red=Cloning site Green=Tags(s)

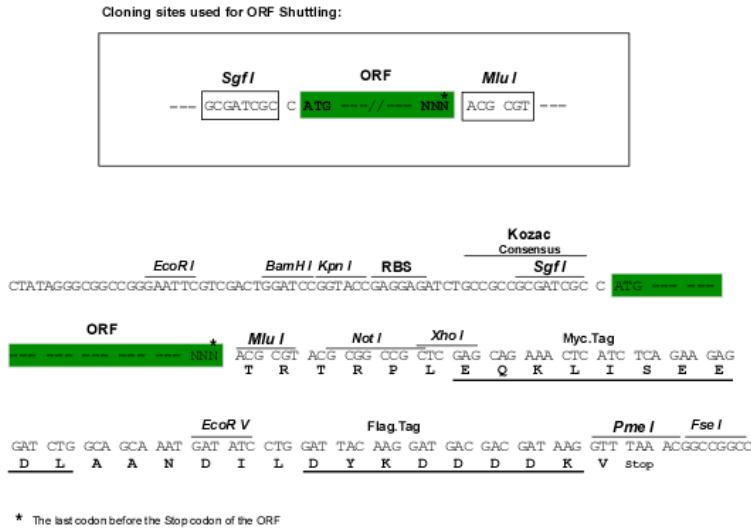
MVSEFPGPSRVPWRPRDEALRVNVGGVRRLLSARALARFPGTRLGRLQAAVSEEQARRLCDDYDAAARE
 FYFDRHPGFFLGLLHFYRTGHLHVLDEL CVFAFGQEADYWGLGENALATCCRARYLERRVTRPRAWDEDS
 DAPSSVDPCPDEISDVQRELARYGAARCGRLRRRLWLTMENPGYSLPSKLFSCVSIQVVLASIAAMCIHS
 LPEYQAREAAAAVAAVAAGRSAEDVRDDPVLRRLEYFCIAWFSFEVSSRLLLAPSTRNFFCHPLNLIDIV
 SVLPHYLTLLAGAALGDRRGASGEELGDLGKVVQVFRMLRIFRVLKLARHSTGLRSLGATLKHSYREVGI
 LLLYLAVGVSVFSGVAYTAEEKNVGFDTIPACWWWGTVSMTTVGYGDVVPETVAGKLAASGCILGGILVV
 ALPITIIIFNKFSHFYRRQKALEAAVRSSGQREFEDLLSSVDGVSVDVLSLETSRETSQEGRSTDLTQAPSE
 PAKSHSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_053954

ORF Size: 1491 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_053954.1](#), [NP_446406.1](#)

RefSeq Size: 2720 bp

RefSeq ORF: 1494 bp

Locus ID: 117023

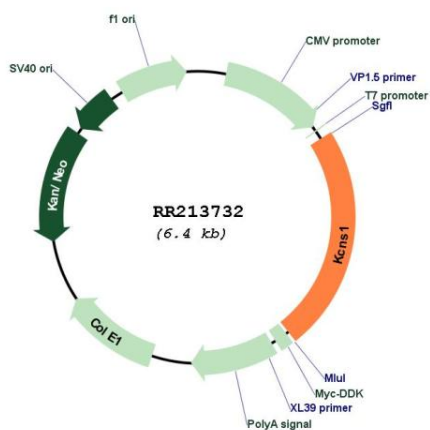
UniProt ID: [O88758](#)

Cytogenetics: 3q42

MW: 54.9 kDa

Gene Summary: potassium channel alpha-subunit [RGD, Feb 2006]

Product images:



Circular map for RR213732