

Product datasheet for **MR208914**

Kcnv2 (NM_183179) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnv2 (NM_183179) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnv2
Synonyms:	KV11.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208914 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAAACAGAGCAACGAGAGGAGATGGTCCTTGAGCTACAAGCCCTGGAGTACCCAGAGACTGAGG
 ATGTGCCCAACACTGGGAGCAACCAACCCGAGGAGCATCTGCTCCTTGGGAGCCCGACTGGCTCTCA
 GGCCAGCATCGCACCAATGGACCGAGGGCAACTACAATTACTACATTGAGGAAGATGAGGACTGCGGG
 GAGGAGGGGGAGGACTGGAAGGATGATCTTGCCGAAGAGAATCAGAAGCGGAGTGCCTCACAAGCTCC
 TGGATGGCCACAACGATACTCCAGCCAAATGTCCACGCTGAAAGTGAACGTAGGCGGCCACAGCTATCT
 GCTGGAATGCTGTGAGCTGGCCAACTACCCAAAACGCGCCTGGGTGCGCTGGCCACCTCCACCCTCGC
 AGAGGCCAGCTGGGCCTGTGTGATGACTACGAGGCACAGACAGACGAGTACTTCTTTGACCGTGACCCAG
 CGGTCTTCCAGCTCATCTACAATTCTACACATCCGGGGTGTGCTGGTGCAGAGCAGCTGTGTCCAGC
 CAGCTTTCTCGAGGAGCTGGGCTACTGGGGAGTGAGGCTCAAATACACGCCACGCTGCTGTGCGATCTGC
 TTCGAGGAGCGGAGGGATGAACTGAGCGAGCAACTGAAGATCAAAGGGAGCTGCCGCGCAGGCGCAGG
 CCGAGGAGGCCGAGGAGCTCTTTCGGGACATGCGCTTCTATGGACCACAACGTC AACGCCTCTGGAACT
 CATGGAGAAGCCCTTTTCTCTGTGGCCGCAAGGCCATGGGGTGGCCACCAACCTCTTCGTGCTCATC
 TCCGTGGTGGCCCTGGCGCTCAACACGGTGGAGGAGATGCAGCACCAGGCGGAGCAGGGCACAGGTGGT
 GGGACCCAGGCCATCTTGAGCACGTGGAGATGCTGTGCGTGGCTTTCTTCACTCTGGAGTTCCTGCT
 GCGCCTCGCCTCCACCCCTAACCTGCAGCGCTTTCACGCAGCGCCCTCAACCTAGTGGACCTGGTGGCC
 ATCTGCTCTTCTACCTGCAGCTGCTGCTCGAGTGCTTACGAGCGAGGACCAGAGGCACAACAAGGACT
 CCCCAGAGAACACGACTGGAGACCGTGGCCGAGTGGGCAAGGTAGGCCAGGTGCTGCGCATCATGCG
 CCTCATGCGCATCTCCGAATCCTCAAGCTGGCTCGCCACTCCACAGGGCTGCGGGCCTTTGGCTTACC
 CTGCGCCAGTGCTACCAGCAGGTGGGCTGCCTGATGCTCTTCACTATGGGCATCTTCTCCTTCTCTG
 CAGCTGTCTACTCGTGGAGCACGACGTGCCTGGTACCAACTTACCAGCATCTCCATGCTGGTGGTG
 GGCCGCGGTAAGCATCTCCACCGTGGGCTATGGAGACATGTACCCGGAGACCCACCTGGGAGGCTTTT
 GCCTTCTCTGCATCGCTTTTGGCATTATTCTCAATGGGATGCCATTTCCATCTCTACAACAAGTTCT
 CCGATTACTACAGCAAGCTCAAAGCTTACGAGTACACCGCCATCCGGAGGGAACGAGGAAAGGTCAACT
 TATGCAGAGGCCACAAGAAAATGGCTGAATGTTTATCTGAAAGTCATGCACAGTCCACCACAAGGCAA
 GAGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208914 protein sequence
 Red=Cloning site Green=Tags(s)

MLKQSNERRWSLSYKPWSTPETEDVPNTGNSQHRRSICSLGARTGSQASIAQWTEGNYNYIEEDEDG
 EEGEDWKDDLAEENQKAECLTSLLDGHNDTPAQMSTLKVNVGGHSYLLECCELANYPKTRLGRLATSTTR
 RGQLGLCDDYEAQTDEYFFDRDPAVFQLIYNFYTSGLVLLVRDELCPRSFLEELGYWVRLKYTPRCCRIC
 FEERRDELSEQLKIQRELRAQAQAEAEELFRDMRFYGPQRQLWNLMEKPFSSVAAKAMGVATNLFVLI
 SVVALALNTVEEMQHQAEGTGGDPRPILHVEMLCVAFFTFLEFLLRLASTPNLQRFARSALNLDLVA
 ILPFYLQLLLECFITMGIFSFAAVYSVEHDVPGTNFTSILHAWWWAAVSIISTVGYGDMYPETHLGRFL
 LRFQCYQQVGLMLFITMGIFSFAAVYSVEHDVPGTNFTSILHAWWWAAVSIISTVGYGDMYPETHLGRFL
 AFLCIAFGIILNGMPISILYNKFSDYYSKLYEYTAIRRERGVNFMQRATKKMAECLSESHAQSTTRQ
 EN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_183179

ORF Size: 1689 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_183179.1](#), [NP_899002.1](#)

RefSeq Size: 5092 bp

RefSeq ORF: 1689 bp

Locus ID: 240595

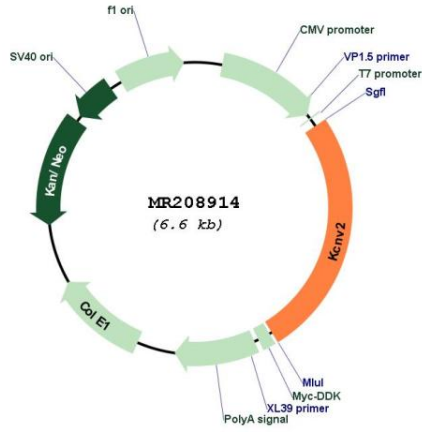
UniProt ID: [Q8CFS6](#)

Cytogenetics: 19 C1

MW: 64.5 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 MR208914