

Product datasheet for **MR225339**

Kcnq2 (NM_001006674) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq2 (NM_001006674) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnq2
Synonyms:	HNSPC; KQT2; Nmf134
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225339 representing NM_001006674
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGCAGAAGTCGCGCAACGGTGGCGTGTACCCGGCACAGCGGGGAAAAGAAGCTCAAGGTGGGCT
 TCGTGGGGCTGGACCCCGCGCGCCGACTCCACACGCGACGGCGGCTACTCATCGCGGCTCCGAGGC
 CCCAAGCGCGGAGCGTTTTGAGCAAGCCGCGACGGCGCGGGAGCCGGGAAGCCCCGAAGCGC
 AACGCCTTCTACCGCAAGCTGCAGAATTTCTCTACAACGTGCTAGAGCGGCCCGCGGCTGGCGTTCA
 TCTACCACGCCTACGTGTTCTTTTAGTCTTCTCTGCTTGTGCTTTCTGTGTTTTCCACCATCAAGGA
 GTACGAGAAGAGCTCTGAGGGGGCCCTACATCTTGAAATCGTACTATCGTGTATTCTGGTGTGAG
 TACTTTGTGAGGATCTGGGCTGCAGGCTGCTGTTGCCGGTATCGAGGCTGGAGGGCAGGCTCAAGTTG
 CCAGGAAGCCGTCTGTGTGATTGATATCATGGTGTGATTGCCTCCATTGCTGTGCTGGCTGCTGGTTC
 CCAGGGCAATGTCTTTGCCACATCTGCGCTTCGGAGCTTCCGGTCTTGCAAATCTTCCGGATGATCCGT
 ATGGACCGGAGGGGTGGCACCTGGAAGCTCTGGGATCGGTAGTCTACGCTCACAGCAAGGAGCTGGTGA
 CTGCCTGGTACATTGGCTTCTCTGCTCATCCTGGCCTCATTTCTGGTGTACTTGGCAGAAAAGGGTGA
 GAATGACCACTTTGACACCTACGCAGATGCACTCTGGTGGGGTCTGATCACCTGACGACCATTTGGCTAC
 GGGGACAAGTACCCTCAGACCTGGAACGGGAGGCTGCTGGCAGCGACCTTACCCTCATTGGTGTCTCGT
 TCTTTGCTCTTCTGCTGGCATTTTGGGATCCGGCTTGGCCCTGAAAGTCCAAGAGCAGCATCGGCAAAA
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 TCATCCCACCTCTGAACCAGCTGGAGCTGCTGAGGAATCTCAAGAGCAAATCTGGACTCACCTTCAGGAA
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 GGATGGCTGCCAAGGAAAGGGTCTCCCCAGGCCAGACGGTCCGGCGGTCCCCAGTCCGGATCAGA
 GTCTTGATGACAGCCGAGCAAGGTGCCAAGAGCTGGAGCTTTGGTGGCCGAGCCGACACGCCAGGC
 TTTCCGCATCAAGGGTGTGATCCCGCAGAATTGAGAAGAAGCAAGCCTCCCTGGGGAGGACATCGTA
 GAGGACAACAAGAGCTGTAAGTGCAGTTTGTGACTGAAGATCTTACCCTGGCCTCAAAGTTAGCATCA
 GAGCTGTGTGTTATGCGGTTCTTGGTATCTAAGCGAAAGTTCAAAGAGAGTCTGCGCCCATATGATGT
 GATGGACGTATCGAACAGTACTCGGCTGGACACTGGATATGTTGTCCCGCATCAAGAGCTGCAGTCC
 AGGTCCTGCGACTGGAGAGGAGTCTGGCA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225339 representing NM_001006674
 Red=Cloning site Green=Tags(s)

MVQKSRNGGVYPGTSGEKCLKVGFVGLDGPAPDSTRDGALLIAGSEAPKRGSVLSKPRTGGAGAGKPPKR
 NAFYRKLQNFLYNVLERPRGWAFIYHAYVFLVFSCLVLSVFSSTIKEYESSEGALYILEIVTIVVFGVE
 YFVRIWAAGCCCRYRGRWRLKFAKPFVIDIMVLIASIAVLAAGSQGNVFATSALRSLRFLQILRMIR
 MDRRGGTWKLLGSVVYAHKELVTAWYIGFLCLILASFLVYLAEKGENDFDHYADALWWGLITLTTIGY
 GDKYPQTWNGRLLAATFTLIGVSFFALPAGILGSGFALKVQEQHRQKHFEKRRNPAAGLIQSAWRFYATN
 LSRTDLHSTWQYYERTVTVPMYRLIPPLNQLLELLRNLKSKSGLTFRKEPQPEPSPSQKVSCLKDRVFS
 SPGRMAAKGKSPQAQTVRRSPSADQSLDDSPSKVPKSWSFGDRSRTRQAFRIKGAASRQNSEASLPGEDIV
 EDNKSCNCFVTEDLTPGLKVSIRAVCMRFLVSKRKFKESLRPYDVMVIEQYSAGHLDMLSRIKSLQS
 RSCDWRGVLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

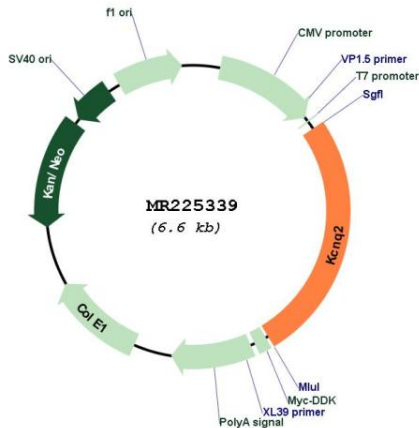
Restriction Sites:

Sgfl-MluI

MW: 64.3 kDa

Gene Summary: Associates with KCNQ3 to form a potassium channel with essentially identical properties to the channel underlying the native M-current, a slowly activating and deactivating potassium conductance which plays a critical role in determining the subthreshold electrical excitability of neurons as well as the responsiveness to synaptic inputs. Therefore, it is important in the regulation of neuronal excitability.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225339