

Product datasheet for **SC206140**

KCNQ2 (NM_172108) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	KCNQ2 (NM_172108) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	KCNQ2
Synonyms:	BFNC; DEE7; EBN; EBN1; ENB1; HNSPC; KCNA11; KV7.2
ACCN:	NM_172108
Insert Size:	2000 bp



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Insert Sequence: >SC206140 3'UTR clone of NM_172108
 The sequence shown below is from the reference sequence of NM_172108. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GACGTGGGCTGGGCCGGGCCAGGAAGTAGGCGGCGCTGGGCCAGTGGACCCGCCCGCGGCCCTCCTC
AGCACGGTGCCTCCGAGTTTTTGAGCGGGAACCTCTGGGGCCCTTTTCTTACAGTAAGTGAAGTGTGG
CGGAAGGGTGGGCCCTGGAGGGGCCATGTGGCTGAAGGATGGGGCTCCTGGCAGTGACCTTTTAC
AAAAGTTATTTTCAACAGGGGCTGGAGGGCTGGGCAGGGCCCTGTGGCTCCAGGAGCAGCGTGCAGGA
GCAAGGCTGCCCTGTCCACTCTGCTCAGGGCCGCGCCGACATCAGCCCGGTGTGAGGAGGGGCGGGAG
TGATGACGGGTGTTGCCAGCGTGGCAACAGCGGGGGTGTCTCAGCCGAGCCAGGGGAGGCACAA
AGGGCAGGCTGTCCCTGAGGACCTGCGCAAAGGGCGGGCTGTTTGGTGAAGACCTGCGCCCTGGG
TCCCGGTGGGGTTTCCGGCAGCTACAGCGGGTGTGGCCGGCCCTGTGCGTGGCTCTGCCTTACA
CCTGACCTGCCCGCGGGCTTTCTGTCCACCTCAGGGGCGCCAAATACAGAGCTATTGGTTGGC
GTCTTCTCCCTGTACCTTCTGGGATCTGAGGGCTTTTCCATGGAAGCCAGCCCCGAGGTGGAGACCTT
CGCTGCAGCCGAGGAGCGGGTGGGCCTGGGAACCAAATGGAGCCAGAGTGGACGTCCAGCCCTCTG
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CCCAGCCTTGAGACCGGGGGGAGGACCCCAAGTCTCCCTCTCTCTGACTGCCCTGGCCGGGTG
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CCCACAGTGCCTCCGACAGACTGGGGCAGGGCTGGCCATGATGCAGCGGGCCAGGATAGCCTCCACC
GTCAGCACAGGGCCGCCCTCCCGCCTTTCCGGAGGAAACCACTCCACCTCAGCCAGCTGTGCGCCC
TCCTAGCTCTCCTGCCCTGGAGCTGATGGCCCTTCTCCACTGACCGATTCTTAGCGGGGCTCT
TGGGGTCTCGGGCTCGGGTGCACCGTCCCATGCCCGTCTGTTGTGGCACCGTGGCCCTTGGGGCAG
GCGGCTTAATGCGGGAGCGAGTCCCTAGCTCCAGACTTAAGAACCAGACCCCGGAGCATCTGGCATT
TGGCGTGACGGCGTGCAGGGGGCTGGGCTCCCTGGAGAGTGGCTCCCTGGGAGTGAGCAGGGCTG
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CGTTTTAGTGCACTTGGCTTGGCTGGGAGTCTGAGGCCCTGAGGCCAGCAGGGGAACCAGTCTGA
GGGAGAGGACTTTGAAAGCAGCATTTGAGGGTCTGACGCCCTGGCTGGTGGGGTCTGGCGCTCAGG
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CTGTGCTGGAGCCTGTCCAAAAAGGTGCCAACTGGGAGGCCCTCGGAAGCCACTGTCCAGGCTCCCACT
GCCTGTCTGCTGTTCCTCAAAGGCAGCGTGTGTGGCCTCGGGCCCTGCGGTGGCATGAAGCATCCCTT
CTGGTGTGGGCATCGCTACGTGTTTTGGGGCAGCGTTTACGGCGGTGCCCTTGTCTCTCCCTTGG
ACGCGTAAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_172108.5](#)

Summary: The M channel is a slowly activating and deactivating potassium channel that plays a critical role in the regulation of neuronal excitability. The M channel is formed by the association of the protein encoded by this gene and a related protein encoded by the KCNQ3 gene, both integral membrane proteins. M channel currents are inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. Defects in this gene are a cause of benign familial neonatal convulsions type 1 (BFNC), also known as epilepsy, benign neonatal type 1 (EBN1). At least five transcript variants encoding five different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Locus ID: 3785

MW: 70.6