

Product datasheet for **SC206138**

KCNQ2 (NM_172107) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	KCNQ2 (NM_172107) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	KCNQ2
Synonyms:	BFNC; DEE7; EBN; EBN1; ENB1; HNSPC; KCNA11; KV7.2
ACCN:	NM_172107
Insert Size:	2000 bp



[View online »](#)

Insert Sequence: >SC206138 3'UTR clone of NM_172107
 The sequence shown below is from the reference sequence of NM_172107. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

```

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GACGTGGGCTGGGCCGGGCCAGGAAGTAGGCGGCGCTGGGCCAGTGGACCCGCCCGCGGCCCTCCTC
AGCACGGTGCCTCCGAGTTTTTGAGCGGGAACCTCTGGGGCCCTTTTCTTACAGTAACTGAGTGTGG
CGGAAGGGTGGGCCCTGGAGGGGCCATGTGGCTGAAGGATGGGGCTCCTGGCAGTGACCTTTTAC
AAAAGTTATTTTCAACAGGGGCTGGAGGGCTGGGCAGGGCCCTGTGGCTCCAGGAGCAGCGTGCAGGA
GCAAGGCTGCCCTGTCCACTCTGCTCAGGGCCGCGCCGACATCAGCCCGGTGTGAGGAGGGCGGGAG
TGATGACGGGTGTTGCCAGCGTGGCAACAGCGGGGGTGTCTCAGCCGAGCCAGGGGAGGCACAA
AGGGCAGGCTGTCCCTGAGGACCTGCGCAAAGGGCGGGCTGTTTGGTGAAGACCTGCGCCCTGGG
TCCCGGTGGGGTTTCCGGCAGCTACAGCGGGTGTGGCCGGCCCTGTGCGTGGCTCTGCCTTACA
CCTGACCTGCCCGCGGGCTTTCTGTCCACCTCAGGGGCGCCAAATACAGAGCTATTGGTTGGC
GTCTTCTCCCTGTACCTTCTGGGATCTGAGGGCTTTTCCATGGAAGCCAGCCCCGAGGTGGAGACCTT
CGCTGCAGCCGAGGAGCGGGTGGGCCTGGGAACCAAATGGAGCCAGAGTGGACGTCCAGCCCTCTG
GTCTTGGCCTCCAGAGGGAGGGCTGGCTCACGGTGGGGCCAGGGAGCCGGCTCCAAAGGTCTTAAA
AAGGGGTCTTGGGGCTCCAGCTGCCTCGCCCTGGCCTTTCTGTGGTGCCTGAGAGCCAGCAGCAC
CCCAGCCTTGAGACCGGGGGGAGGACCCCAAGTCTCCCTCTCTCTGACTGCCCTGGCCGGGTG
CCGGCAGTGCAGACCCACCTGGTGAGCAGGCCTCACAGTTCTTAGCCAGGGCCACCTCGCCTGTGT
CCCACAGTGCCTCCGACAGACTGGGGCAGGGCTGGCCATGATGCAGCGGGCCAGGATAGCCTCCACC
GTCAGCACAGGGCCGCCCTCCCGCCTTTCCGGAGGAAACCACTCCACCTCAGCCAGCTGTGCGCCC
TCCTAGCTCTCCTGCCCTGGAGCTGATGGCCCTTCTCCACTGACCGATTCTTAGCGGGCCTCT
TGGGGTCTCGGGCTCGGGTGCACCGTCCCATGCCCTCTGTTGTGGCACCGTGGCCCTTGGGGCAG
GCGGCTTAATGCGGGAGCGAGTCCCTAGTCCAGACTTAAGAACCAGACCCCGGAGCATCTGGCATT
TGGCGTGACGGCGTGCAGGGGGCTGGGCTCCCTGGAGAGTGGCTCCCTGGGAGTGAGCAGGGCTG
GGTCTGGGGCGAAATACTCCTGCAGAGCAAGTGCAGGGGAGTCTGGGCCGTTTCTCTCCACCTG
CGTTTTAGTGCCTTGGCTTGGCTGGGAGTCTGAGGCCCTGAGGCCAGCAGGGGAACCAGTCTGA
GGGAGAGGACTTTGAAAGCAGCATTTGAGGGTCTGACGCCCTGGCTGGTGGGGTCTGGCGCTCAGG
GTGTTCCGGGAGCCATGTCTGGCTCCATTGTGGGGAGCTGCTGCCCTGGCTCTCTGCCTACCCCCAG
CCCGGCCAGGGCACTCCAGGCCCTGTCCGCAATTGAGGTGCCCTCCGCTGGGCTGTCTCTCACCCCTCC
CTGTGCTGGAGCCTGTCCAAAAAGGTGCCAACTGGGAGGCCCTCGGAAGCCACTGTCCAGGCTCCACT
GCCTGTCTGCTGTTCCTCAAAGGCAGCGTGTGTGGCCTCGGGCCCTGCGGTGGCATGAAGCATCCCTT
CTGGTGTGGGCATCGCTACGTGTTTTGGGGCAGCGTTTACGGCGGTGCCCTTGTCTCTCCCTTGG
ACGCGTAAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

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_172107.4](#)

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