

Product datasheet for **MR223106**

Kcnq4 (NM_001081142) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq4 (NM_001081142) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnq4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR223106 representing NM_001081142
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGGCCCGCCGCGCCCTCGGCCCTGGGCCCGCCCGGGGACGCCCGCGCGGAGTTGG
 TGGCGCTCACGGCGTGCAGAGTGAACAGGGCGAGGCGGGCGGGGCGGCTCTCCGCGTCGCTCGGCC
 TCTGGGACGCCCCCTGCCGCGGGCGCGCCCTCCCTGGGCCGGGCTCCGGCTCGGGCTCCGCTCGCGG
 GGCCAGCGCTCTCCGCCGCGCAGAAGCGCTACCGCCGCTGCAGAACTGGGTCTACAACGTGCTGGAGC
 GGCCCCGCGGGTGGGCTTCGTCTACCACGTCTTCATATTTTGTAGTCTTCAGCTGCCTGGTGTGTC
 TGTACTGTCCACCATCCAGGAGCACCAGGAACCTGCCAACGAGTGTCTCCTTATCTTGAATTCTGTATG
 ATTGTGGTCTTTGGCTTGGAGTATATAATCCGTGTCTGGTGGCCGGATGCTGTTGTGCTACAGAGGAT
 GGCAGGGACGCTTCGCTTCGCCAGGAAACCTTCTGTGTCTCATCGACTTCATCGTGTTCGTGGCCTCGT
 GGCAGTGTAGCTGCGGGCACACAAGGCAACATCTTTGCTACGTCGGGTTGCGCAGTATGCGCTTCTTA
 CAGATCTGCGCATGGTGCATGGATCGCCGCGGTGGCACCTGGAAGCTGTTGGGATCCGTGGTCTATG
 CGCACAGTAAGGAGCTGATCACCGCTGGTACATCGGGTTCCTGGTGTCTATCTTGCCTCTTTCCTGGT
 CTACCTGGCTGAGAAGGATGCCAACTCTGACTTCTCCTCTATGCCGACTCGCTCTGGTGGGGGACGATC
 ACACTGACGACCATTTGGCTATGGTGACAAGACGCCACATACATGGCTGGGAGGGTTCTGGCTGCCGGCT
 TCGCCTTACTGGGCATCTCCTTCTTTGCCCTGCCTGCCGGCATCTGGGCTCTGGCTTTGCCCTGAAGGT
 CCAGGAGCAGCACAGGACAGAAGCACTTTGAGAAGCGCAGGATGCCAGCAGCTAATCTCATCCAGGCTGCG
 TGGCGCTGTACTCCACGGACACAAGCCGGGCTATTTGACAGCCACCTGGTATTACTATGACAGCATTC
 TCCCATCTTTCAGAGAGCTGGCCCTCTTGTGTTGAGCACATAACAACGGGCCGCAATGGGGCTTACGGCC
 CCTGGAGGTGAGGCGGGCGCCAGTACCTGATGGAGCGCCCTCTCGCTACCCGCCCCGTTGCCACCTGCCAC
 CGGCCAGGCAAGTGCCTCCTTCTGCCCTGGGAAAAGCAGCCGGATGGGCATCAAAGACCGAATCCGCATAA
 GCAGCTCCAGAAAGCGGACAGGCCCTCCAAGCAGCATCTGGCCCTCCGCCGATTCCACCTCGCCAAG
 CAGTGAGCAGGTGGGCGAGGCATCCAGCCCCAGCAAGGTGCAGAAAAGCTGGAGCTTCAATGACCGCACC
 CGCTTCCGGGCTCTCTAAGACTCAAGCCTCGCTGCTCTGCTGAGGAGGGCCCTCAGAGGAAGTGCCG
 AGGAGAAGAGCTACCAGTGTGAGCTTACGGTGGATGATGTCATGCCTGCTGTGAAGACGGTCATCCGTTT
 TGTCAGGATTCTGAAGTTCCTGGTAGCCAAAAGGAAATCAAGGAGACGCTGCGGCCATATGATGTGAAG
 GATGTCATTGAGCAGTATTCAGCAGGACACCTGGACATGCTGGGACGAATCAAGAGCCTGCAAGCCCGGG
 TGGACCAATTTGGGTGCGGGCCCTGGGGACCGCAAGACTCGGGAGAAGGGCGATAAAGGTCCTTCAGA
 CACGGAGGCAAGTGGATGAAATCAGCATGATGGGGCGCTAGTCAAGGTGAAAAGCAGGTGCAGTCCATC
 GAACATAAGTTGGATCTGCTGCTGGGCTTCTACTCGCGCTGCCTCCGCTCTGGCACCTCGGCCAGCTGG
 GCACTGTGCAAGTCCGCTCTTCGACCCCGACATCACCTCGGACTACCACAGCCCTGTAGACCACGAGGA
 CATCTCTGCTCCGCACAGACGCTCAGCATCTCTGCTCAGTCAGCACCAACATGGAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223106 representing NM_001081142
Red=Cloning site Green=Tags(s)

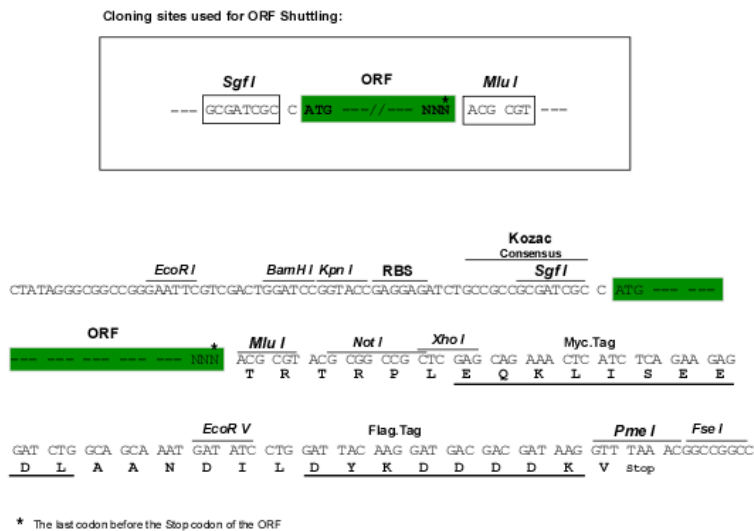
```
MAEAPPRRLGLGPPPGDAPRAELVALTAVQSEQEAGGGGSPRRLGLLGSPLPPGAPLPGPGSGSGSACG
GQRSSAAQKRYRRLQNVVYNLERPRGWAFVYHVFIFLLVFSCLVLSVLSSTIQEHQELANECLLILEFVM
IVVFGLEYIIRVWSAGCCCRYRGWQGRFRFARKPFCVIDFIVFVASVAVIAAGTQGNIFATSALRSMRFL
QILRMVRMDRRGGTWKLLGSAVVAHAKELITAWYIGFLVLIASFVLYLAEKDANSDFSSYADSLWWGTI
TLTTIGYGDKTPHTWLGRLAAGFALLGISFFALPAGILGSGFALKVQEQRQKHFEKRRMPAANLIQAA
WRLYSTDTSRAYLTATWYYYDSILPSFRELALLFEHIQRARNGLRPLEVRRAPVPDGAPSRYPPVATCH
RPGSASFPGESSRMGIKDRIRISSSQKRTGPKQHLAPPIPTSPSSEQVGEASSPSKVQKSWSFNDRT
RFRASLRKPRCSAEEGPSEEVAEEKSYQCELTVDDVMPAVKTVIRSVRILKFLVAKRKFKETLRPYDVK
DVIEQYSAGHLDMLGRIKSLQARVDQIVGRGPGDRKTREKGDGKPSDTEAVDEISMGRVVKVEKQVQSI
EHKLDLLLGFYSRCLRSGETSASLGTVQVPLFDPDITSDYHSPVDHEDISVSAQTLISRSVSTNMD
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



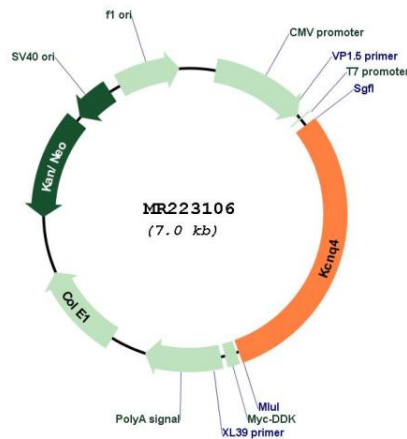
ACCN: NM_001081142

ORF Size: 2088 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:	<ol style="list-style-type: none"> 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:	<u>NM_001081142.3</u>
RefSeq Size:	2512 bp
RefSeq ORF:	2091 bp
Locus ID:	60613
UniProt ID:	<u>Q9JK97</u>
Cytogenetics:	4 D2.2
MW:	77.5 kDa
Gene Summary:	Probably important in the regulation of neuronal excitability. May underlie a potassium current involved in regulating the excitability of sensory cells of the cochlea.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR223106