

Product datasheet for **MG217684**

Kcnq3 (NM_152923) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnq3 (NM_152923) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnq3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217684 representing NM_152923
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTCTCAAGGCTCGCAGGGCGGGGGCGGCTGGCGGGGGCGGCGGAAGGGGGCGGCGCGCG
 GCGGGGCCGCTAACCCTGCTGGAGGGGACTCGGCGGTGGCCGGGACAGAGAGCGAAAGTGGGGCTGGC
 GCCAGGAGACGTGGAGCAAGTCACCTTGCGCTAGGGGCCGAGCCGACAAAGACGGGACCTGCTGCTG
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 ACGGACACAGACCCCTTACACCCAGTGGTTCCATGCCTATGTATCCACTGGGGATGGTATTTAGATT
 CCATATGGACCCCTTCCAACAAGCCCACT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217684 representing NM_152923
Red=Cloning site Green=Tags(s)

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MGLKARRAAGAAGGGGGEGGGGGGAANPAGGDSAVAGDEERKVG LAPGDVEQVTLALGAGADKDG TLLL
EGGGREEGQR RTPQGIGLLAKTPLSRPVKRNNAKYRRIQT LIYDALERPRGWALLYHALVFLIVLGCLIL
AVL TTFKEYETVSGDWLLLLLETF AIFIFGAEFALRIWAAGCCCR YKGWRGRLKFARKPLCMLDIFVLIAS
VPVAVGNQGNV LATSLSRSLRFLQILRMLRMDRRGGT WKLLGSAICAHSKELITAWYIGFLTILSSFLV
YLVEKDVPEMDAQGEEMKEEFETYADALWWGLITLATIGYGD KTPKTWEGRLIAATFSLIGVSFFALPAG
ILG SGLALKVQEQRQKHFEKRRKPA AE LIQA AWRYATNP NRDLVATWRFYESVVSFPFFRKEQLEAA
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TDTDPF TPGSMPMSSTGDGISDSIWTPSNKPT
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TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1725_f09.zip

Restriction Sites: SgfI-MluI

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_152923.3](#)

RefSeq Size: 2878 bp

RefSeq ORF: 2622 bp

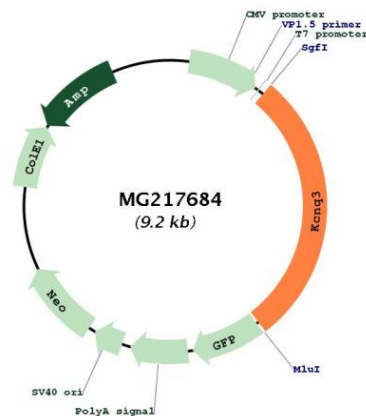
Locus ID: 110862

UniProt ID: [Q8K3F6](#)

Cytogenetics: 15 29.16 cM

Gene Summary: Associates with KCNQ2 or KCNQ5 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 MG217684