

Product datasheet for **RC228591**

KCNQ5 (NM_001160134) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNQ5 (NM_001160134) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNQ5
Synonyms:	Kv7.5; MRD46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228591 representing NM_001160134
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGCCACCACGCGGGAGGAGAGGGCGGCGCCCGGGCTCTGGGTGAAGAGCGGCCAGCGG
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 GCTGAACTCGGCAGCCGCCAGGGGCGACGGCTGCTACTGCTGGGACCCGCGCGCCACGCTCGGTGGC
 GGCGGGGTGGCCTGAGGGAGAGCCCGGGGCAAGCAGGGGGCCGGATGAGCCTGCTGGGGAAGCCGC
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ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228591 representing NM_001160134
 Red=Cloning site Green=Tags(s)

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MPRHHAGGEEGGAAGLWVKSGAAAAAGGGRLGSGMKDVESGRGRVLLNSAAARGDLLLLGTRAAATLGG
GGGGLRESRRGKQGARMSLLGKPLSYTSSQSCRRNVKYRRVQNYLYNVLERPRGWAFIYHAFVLLVFGC
LILSVFSTIPEHTKLASSCLLILEFVMI VVFGLEFIIRIWSAGCCCRYRGWQGRLEFARKPFCVIDTIVL
IASIAVVS AKTQGNIFATSALRSLRFLQILRMVRMDRRGGTWKLLGSVVYAHSKELITAWYIGFLVLIFS
SFLVYLVEKDANKEFSTYADALWWGTITLTTIGYGDKTPLTWLGRLLSAGFALLGISFFALPAGILGSGF
ALKVQEQRQKHFEKRRNPAANLIQCWRSYAADEKSVSIATWPKHLKALHTCSPTKKEQGEASSRIMKF
HVAKRKFKETLRPYDVKDVEIQYSAGHLDMLCRIKSLQTRVDQILGKGQITSDKKSREKITAHEHTDDL
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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_001160134.2](#)

RefSeq ORF: 2469 bp

Locus ID: 56479

UniProt ID: [Q9NR82](#)

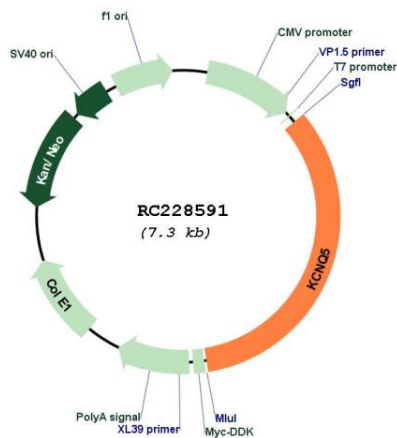
Cytogenetics: 6q13

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

MW: 89.8 kDa

Gene Summary: This gene is a member of the KCNQ potassium channel gene family that is differentially expressed in subregions of the brain and in skeletal muscle. The protein encoded by this gene yields currents that activate slowly with depolarization and can form heteromeric channels with the protein encoded by the KCNQ3 gene. Currents expressed from this protein have voltage dependences and inhibitor sensitivities in common with M-currents. They are also inhibited by M1 muscarinic receptor activation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]

Product images:



Circular map for RC228591