

Product datasheet for **MR220187**

Kcng3 (NM_153512) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcng3 (NM_153512) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcng3
Synonyms:	KV6.3; Kv10.1a; Kv10.1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220187 representing NM_153512
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCTTCGGGCGGGCGGGGGCGCCCTCGGTGGTGTCTGAACGTGGGCGGCGCCGGTACTCGTGTCCC
 GGGAGCTGCTCAAGGACTTCCCCTGCGCCGCGTGAGCCGGCTGCACGGCTGCCGCTCGGAGCGCGACGT
 GCTCGAAGTGTGCGACGACTACGACCGGGAGCGCAACGAGTACTTCTTCGACCGACACTCGGAGGCCTTC
 GGCTTCATCCTGTGTACGTGCGCGGCCACGGGAAGCTGCGCTTCGCGCCGCGGATGTGCGAGCTCTCT
 TCTACAACGAGATGATCTACTGGGGCTGGAGGGTGCACCTGGAGTACTGCTGCCAGCGCCGCCTAGA
 CGACCGCATGTCCGACACCCACACCTTTACGCGGCAGACGAGCTGGGCCGCGAGCAGCCTCGTCCC GCC
 GGACCCGAGGCGGCCCTCCC GCGCTGGCTGGAGCGCATGCGGCGGACCTTCGAGGAGCCACGTCGT
 CGCTGGCCGCGCAGATCCTGGCCAGCGTGTCCGTGGTGTTCGTGATCGTGTCCATGGTGGTGTGTGCGC
 CAGCACGCTGCCGACTGGCGTGGCGGGTTCGACAACCGCAGTCTGGATGACCGGAGCAGGACTCC
 GCCAGCCCTGGGAGGGAACCTCCGGGATAATTGAAGCTATCTGCATAGGGTGGTTCACCGCGGAGTGCA
 TCGTGGGTTTCATCGTCTCCAAAAACAAGTGTGAGTTTGTCAAGAGACCCCTGAACATCATTGACTTACT
 GGCAATCACGCCCTATTACATCTCTGTGCTAATGACAGTGTTCACAGCGGAGAACTCTCAACTCCAGAGG
 GCTGGGGTACCTTGAGGGTCTCCGAATGATGCGGATCTTCTGGGTGATCAAGCTTGCCCGGCACTTCA
 TTGGTCTCGACACTGGGCTTGACTCTCAAGCGATGCTACCGAGAGATGGCTATGTTACTTGTCTTCAT
 CTGTGTTGCCATGGCAATCTTTAGTGCCTCTCAGCTCCTTGAACATGGGCTGGACCTGGAAACATCC
 AACAGGATTCGCCAGCATCCCCGCTGCCTGGTGGGTGATTATCTCTATGACTACAGTTGGCTATG
 GAGATATGTATCCTATCACGGTGCCTGGAAGAATTCTTGGAGGAGTTTGTGTTGTCAGTGGGATTGTTCT
 GTTGGCATTACCCATCACTTTCATCTACCATAGCTTTGTGCAGTGCTACCACGAGCTCAAGTTTAGATCG
 GCTAGATATAGTAGGAGCCTCTCAGCTGAGTTCCTGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220187 representing NM_153512
 Red=Cloning site Green=Tags(s)

MTFGRGGAASVVLNVGGARYSLSRELLKDFPLRRVSRLHGRSERDVLVCCDDYDRERNEYFFDRHSEAF
 GFILLYVRGHGKLRFAPRMCELSFYNEMIIYWGLEGAHLEYCCQRRLLDDMSDTHTFHADELGREQPRPA
 GPEAAPSRRWLERMRRTFEEPTSSLAAILASVSVVFIIVSMVVLCASTLPDWRAAVADNRSLDDRSRYS
 ASPGREPSGIIIEAICIGWFTAECIVRFIVSKNKCEVVKRPLNIIDLLAITPYIISVLMVFTGENSQLQR
 AGVTLRVLMMRIFWVIKLRHF IGLQLGLTLKRCYREMAMLLVFICVAMAIIFSALSQLEHGLDLETS
 NKDFASIPAACWWVIISMTTVGYGDMYPITVPGRILGGVCVVSIGIVLLALPITFIYHSFVQCYHELFKRS
 ARYSRSLSAEFLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_h01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_153512

ORF Size: 1299 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:

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_153512.1](#), [NP_705732.1](#)

RefSeq Size: 3356 bp

RefSeq ORF: 1302 bp

Locus ID: 225030

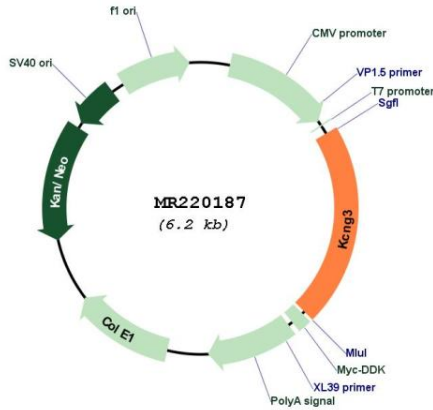
UniProt ID: [P59053](#)

Cytogenetics: 17 E4

MW: 49.7 kDa

Gene Summary: Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220187