

Product datasheet for RR211462

Kcnab3 (NM_031652) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnab3 (NM_031652) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnab3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR211462 representing NM_031652 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGTGTCTATCGCGTGTACCGAGCAGAACCTTCGCAGCCGGAGCAGTGAGGACCGTCTCTGTGGAC
CCCGGCCGGTCTGGAGGCGGTAATGGAGGGCCAGTGGGCGGAGGGCATGGGAACCTCCGGGGGTGG
AGGATTTGGGCTCCAAGTCACGGACTGCAGTGGTCCCCGACCCAGCACCTGCTGGGGCCCTTCGAGAG
AGCACCCGGCCGAGGCACTGGCATGAAATACAGGAACCTAGGAAAGTCTGGACTCCGGGTGTCTGTCTTG
GCCTCGGAACCTGGGTACATTTGGCTCTCAGATCTCAGATGAGACAGCAGAAGATCTCCTGACAGTAGC
CTATGAGCACGGTGTAAACCTGTTTGACACCCGCTGAAGTGTACGCAGCAGGAAAGGCTGAAAGAACCCTA
GGCAACATCCTCAAGAGCAAAGGTTGGAGGAGATCAAGCTATGTTATCACCACCAAGATTTTTTGGGGAG
GACAGGCAGAACTGAGCGAGGCTTGAGTCGAAACACATCATTGAAGGCTTGAAGGATCCCTGGACCG
CCTCCAACCTGGAATACGTTGACATAGTATTTGCCAATCGTTCAGACCCAGCAGTCCATGGAGGAGATT
GTAAGAGCCATGACCTATGTCATCAACCAGGGCTGGCCCTATACTGGGGACATCCAGGTGGAGTGTG
CAGAAATCATGGAGGCCACTCCATGGCCAGACAGTTCATCTGATCCCTCCTGTGTGTAACAAGCGGA
GAACCACTTCTTCAGAGGGAGAAGGTGGAGATGCAGCTGCCTGAGCTCTACCACAAAATGGTGTGGC
TCAGTCACTTGGTCTCCCCTGGCGTGCAGCCTCATTACTAGCAAGTACGATGGGCAAGTTCAGATGCTT
GCAAGGCCACTGTCAAGGCTACCAAGTGGCTCAAAGAAAAGTCAAAGTGAAGATGGCAAGAAGCAACA
AGCCAGAGTGACGGACCTTCTCCCATCGCTCACCAGCTAGGCTGCACCGTGGCCCAACTTGCTATAGCC
TGGTGTCTCCGAAGCGAAGGTGTGAGCTCAGTTTTACTGGGGTGTCCAGTGCAGAGCAGCTGATGGAAC
ATCTGGGGTCCCTACAGGTGTGGGTGAGCTGACGCCGAAACGGTGTGAAATAGATGCGCTCTTGGG
GAACAAATCGCATTCCAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211462 representing NM_031652
Red=Cloning site Green=Tags(s)

MQVSIACTEQNLRSRSEDRLCGPRPGPGGGNGGPVGGGHGNPPGGGGLGSKSRTAVVPRPPAPAGALRE
 STGRGTGMKYRNLGKSGLRVSLGLGTWVTFGSQISDETAEDLLTVAYEHGVNLFDTAEVYAAGKAERTL
 GNILKSKGWRSSYVITTKIFWGGQAETERGLSRKHIEGLQGSLDRLQLEYVDIVFANRSDPSSPMEEI
 VRAMTYVINQGLALYWGTSRWSAAEIMEAYSMAEQFNLIIPPVCEQAENHFFQREKVEMLPELYHKIGVG
 SVTWSPLACSLITSKYDQVPDACKATVKGYQLKEKVQSEDGKKQARVTDLLPIAHQLGCTVAQLAIA
 WCLRSEGVSLLGVSSAEQLMEHLGSLQVLGQLTPQTVMEIDALLGNKSHSKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031652

ORF Size: 1212 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_031652.1](#), [NP_113840.1](#)

RefSeq Size: 2115 bp

RefSeq ORF: 1215 bp

Locus ID: 58981

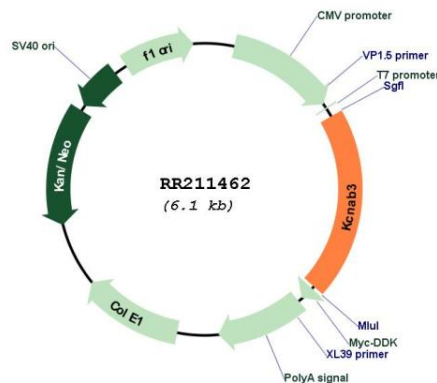
UniProt ID: [Q63494](#)

Cytogenetics: 10q24

MW: 43.7 kDa

Gene Summary: beta subunit of voltage gated potassium channel; involved in altering the activation kinetics of channel Kv1.4 [RGD, Feb 2006]

Product images:



Circular map for RR211462