

Product datasheet for **RR207497**

Kcnb1 (NM_013186) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnb1 (NM_013186) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnb1
Synonyms:	DRK1PC; Kcr1-1; Kv2.1; Shab
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR207497 representing NM_013186
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGAAGCATGGCTCGCGCTCCACCAGCTCGTGCCGCCGAGCCCATGGAGATCGTGCCGACGAAGG
 CGTGCTCGCGCCGGTGCCTCAACGTCGGGGGCTGGCGCACGAGGTGCTGTGGCGCACTCTGGACCG
 CCTGCCCCGACGCGGCTGGCAAGCTTCGGGACTGCAACACGCACGACTCCCTGCTCCAGTGTGCGAC
 GACTACAGCCTTGAGGACAACGAGTACTTCTTCGACCGCCACCCTGGCGCCTTTACCTCCATTCTCAATT
 TCTACCGCACCGCCGGCTGCACATGATGGAGGAGATGTGCGCGTGAGCTTCAGCCAGGAGCTGGACTA
 CTGGGGCATCGATGAGATCTACCTGGAGTCTGCTGCCAGGCCGCTATCACAAAAGAAGGAGCAGATG
 AACGAGGAGCTGAAGCGGAGGCCGAGACGCTGCGGGAGCGGGAGGGCGAGGAGTTGACAACACGTGCT
 GTGCAGAGAAGAGGAAGAACTCTGGGATCTGCTGGAGAAGCCAACTCGTCGGTGGCCGCAAGATCCT
 GGCCATCATCTCGATCATGTTTCATCGTCTGTCCACCATCGCTCTGTCACTCAACACGCTGCCTGAGCTG
 CAGAGCCTAGACGAGTTCGGCCAGAGCACGGATAACCCGAGCTGGCGCACGTGGAGGCGGTGTGCATCG
 CATGGTTCACCATGGAGTACTTGTGAGGTTCTGTCTCCCCAAGAAATGGAAGTTCTTCAAGGGCCC
 CCTCAACGCCATTGACCTACTGGCCATCCTGCCCTACTACGTACCATCTTCTCACAGAATCCAACAAG
 AGCGTGTGCAGTTCAGAACGTGCGCCGCGTGGTCCAGATCTTTCGCATCATGCGCATCCTTCGGATCC
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 GGGCCTGCTATCCTCTTCTCGCATGGGCATCATGATCTTCTCCAGCCTGGTCTTCTTCGCGGAGAAG
 GATGAGGACGACCAAGTTCAAAAGCATCCCCGCTCTTCTGGTGGGTACCATCACCATGACAACCTG
 TTGGCTATGGAGACATCTACCCGAAGACTCTCTGGGAAAAATCGTGGGGGGGCTCTGTTGCAATTGCCGG
 GGTCTGGTATTGCTCTCCCCATCCCCATCATCGTCAATAAATTCTCCGAGTTCTACAAGGAGCAGAAG
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 CTCTCCGAGACCAGTCCAGTAAGTCTTTGAAACCAAGGAGCAGGGATCCCCGAAAAGGCCAGGTCTCT
 CGTCTAGTCCACAGCACTGAACGTCCAGCAGCTGGAAGACATGTACAGTAAGATGGCCAAGACACAGTC
 CCAGCCCATCCTCAACACCAAGGAGATGGCCCCGAGAGCAAGCCTCCAGAGGAGCTGGAGATGAGCAGC
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 TTGACAGCTTATCAGCTGTGCCACGGACTTCCCTGAAGCCACCAGATTCTCCACAGTCTCTGGCATC
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 CCCGCTGCTGCCCTCCCTGGGCTGTATCACGATCCTCTTAGGAACAGAGGAGGGGCGAGCGGCTGCAGTT
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 AAAAGTCTCCACGGAGTACCAGTCCCAAGTTCAGCACTGGAGCTAGAACGGAGAAGAACCCTTCGAGA
 GCTCCCCCTTGGCCACCTCCCCTAAGTTCTTAAGGCCAACTGTGTCTACTCCTCAGAAGGGTTGACTGG
 AAAAGGCCCTGGGGCTCAAGAGAAATGCAAGCTGGAGAACCATACCCCCGGATGTGCACATGCTGCCT
 GGGGGAGGAGCACACGGGAGCACTAGGGATCAGAGTATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207497 representing NM_013186
 Red=Cloning site Green=Tags(s)

MTKHGSRSTSSLPEPEIIVRSKACSRRLNVGGLAHEVLWRTLDRLPRTLGLKLRDCNTHDSLQVCD
 DYSLEDNEYFFDRHPGAFSTILNFYRTGRLHMMEEMCALSFSQELDYWGIDEIYLESCCQARYHQKKEQM
 NEELKREAETLREREGEEFDNTCCAERKKLWDLLEKPNSSVAAKILAIISIMFIVLSTIALSLNTLPEL
 QSLDEFGQSTDNPQLAHVEAVCIAWFTMEYLLRFLSSPKKWKFFKGPLNAIDLLAILPYVYVIFL TESNK
 SVLQFQNVRRVQIFRIMRILRILKLRHSTGLQSLGFTLRRSYNELGLLILFLAMGIMIFSSLVFFAEK
 DEDDTKFKSIPASFWWATITMTTVGYGDIYPKTLGKIVGGLCCIAGVLVIALPIPIIVNNFSEFYKEQK
 RQEKAIKRREALERAKRNGSIVSMNMKDAFARSIEMMDIVVEKNGESIAKKDKVQDNHLSPNKWKWKRA
 LSETSSSKSFETKEQGSPEKARSSSPQHLNVQQL EDMYSKMAKTQSQPILNTKEMAPQSKPPEEMSS
 MPSPVAPLPARTEGVIDMRSMSSIDSFISCATDFPEATRFSHSPLASLSSKAGSSTAPEVWGWRGALGASG
 GRLTETNPPIPETSRSGFFVESPRSSMKTNNPLKLRALKVNFVEGDP TPLLP SLGLYHDPLNRGGAAAAV
 AGLECASLLDKPVLSPESIIYTTASARTPPRSPEKHTAIAFNFEAGVHHYIDTDTDEGQLLYSDVSSPP
 KSLHGSTSPKFSTGARTEKNHFESSPLPTSPKFLRPNCVYSSEGLTGKGPQAQEKCKLENHTPPDVHMLP
 GGAHGSTRDQSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

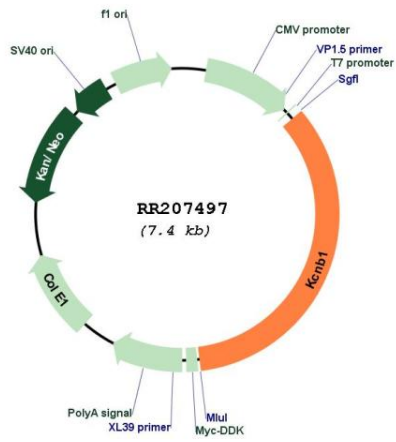
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_013186
ORF Size:	2559 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:	NM_013186.1 , NP_037318.1
RefSeq Size:	3348 bp
RefSeq ORF:	2562 bp
Locus ID:	25736
UniProt ID:	P15387
Cytogenetics:	3q42
MW:	95.3 kDa
Gene Summary:	voltage gated potassium channel; involved in the excitability in nerve and muscle [RGD, Feb 2006]

Product images:



Circular map for RR207497