

## Product datasheet for RR214330

### Kcnab1 (NM\_017303) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnab1 (NM_017303) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnab1
Synonyms:	KvBeta3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214330 representing NM_017303 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAAGTCTCCATAGCCTGCACAGAGCACAATTTGAAGAGTCGAAATGGTGAGGACCGACTTCTGAGCA  
AGCAGAGCTCCACCGCCCCCAATGTGGTGAACGCAGCCCGGGCCAAATCCGCACTGTCGCTATCATCGC  
TCGCAGCTGGGGACCTCACCCCTCAGCATCACATTTCTCTCAAAGAGTCCACTGCAAAGCAGACTGGC  
ATGAAATATAGGAATCTTGGGAAATCAGGACTCAGAGTTTCGTGCTTGGGTCTTGAACATGGGTGACAT  
TCGGAGGTCAAATTTAGATGAGGTTGCTGAACGGCTGATGACAATTGCCTATGAGAGTGGAGTTAATCT  
CTTCGACACTGCAGAAGTCTATGCTGCTGGGAAGGCTGAGGTGATTCTGGGGAGCATCATCAAGAAGAAA  
GGCTGGAGGAGTCAAGCTTGGTCATCACAACCAACTCTACTGGGGTGGAAAAGCCGAAACAGAAAGAG  
GATTGTCAAGAAAGCACATCATTGAAGGACTGAAAGGCTCCCTCCAGAGGCTGCAACTGGAATATGTGGA  
CGTGGTCTTTGCAATCGCCAGACAGCAACACCCCATGGAAGAAATCGTTCGAGCCATGACGCACGTG  
ATCAACCAAGGCATGGCAATGTACTGGGCACCTCGAGGTGGAGCGCGATGGAGATCATGGAAGCCTACT  
CTGTGCGCGGCAGTTCAACATGATCCCGCCTGTCTGTGAGCAAGCTGAGTATCATCTTTTCCAGAGAGA  
AAAGGTGGAGTCCAGCTGCCAGAGCTCTACCATAAAATAGGGGTTGGTGAATGACATGGTCTCCACTT  
GCTTGTGGAATTTTTCAGGAAAATATGAAAATGGGGTGCAGAAAAGTTCTAGAGCTTCACTGAAGTGCT  
ACCAGTGGTTGAAGGAAAGGATTGTAAGTGAAGAAGGGAGAAAACAGCAAAACAAGCTGAAAACCTCTC  
TCCAATTGCTGAACGCCTGGGATGCACACTACCTCAGCTGGCTGTGGCATGGTGCCTGAGAAACGAGGGT  
GTGAGCTCTGTGCTGCTGGGATCATCCACTCCTGAACAACTCATTGAAAACCTTGGTGCCATTGAGTCC  
TCCCTAAGATGACATCACATGTGGTAAATGAGATTGATAACATATTGCGCAACAAGCCCTACAGCAAAA  
GGACTATAGATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR214330 representing NM\_017303  
 Red=Cloning site Green=Tags(s)

MQVSIACTEHNLKSRNGEDRLLSKQSSTAPNVVNAARAKFRTVAIIARSLGTFTPQHHISLKESTAKQTG  
 MKYRNLGKSGLRVSLGLGTWVTFGGQISDEVAERLMTIAYESGVNLFDTAEVYAAGKAEVILGSIKKK  
 GWRRSSLVITTKLYWGGKAETERGLSRKHIIIEGLKGLQLRQLEYYDVVFANRPDSNTPMEEIVRAMTHV  
 INQGMAMYWGTSRWSAMEIMEAYSVARQFNMIIPPVCEQAEYHLFQREKVEVQLPELYHKIGVGAMTWSPL  
 ACGIISGKYGNVPSSRASLKCQWLKERIVSEEGRKQONKLDLSPIAERLGCTLPQLAVAWCLRNEG  
 VSSVLLGSSTPEQLIENLGAIQVLPKMTSHVVNEIDNILRNKPYSKKDYRS

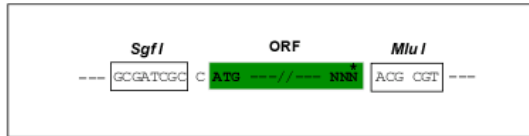
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

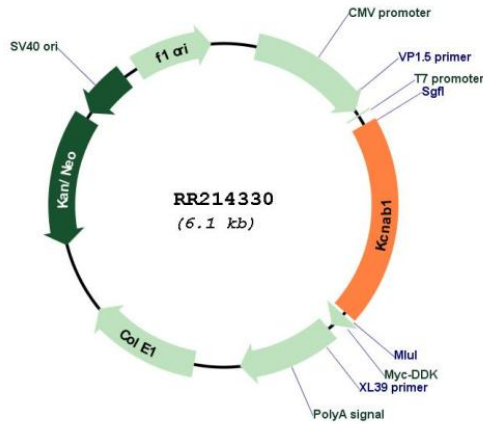
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



**ACCN:**

NM\_017303

<b>ORF Size:</b>	1203 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_017303.2</a> , <a href="#">NP_058999.1</a>
<b>RefSeq Size:</b>	3522 bp
<b>RefSeq ORF:</b>	1206 bp
<b>Locus ID:</b>	29737
<b>UniProt ID:</b>	<a href="#">P63144</a>
<b>Cytogenetics:</b>	2q31
<b>MW:</b>	44.7 kDa
<b>Gene Summary:</b>	beta subunit of potassium channel involved in alteration of channel activation kinetics [RGD, Feb 2006]