

Product datasheet for **RR209688**

Doc2b (NM_031142) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Doc2b (NM_031142) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Doc2b
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR209688 representing NM_031142
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCCTCCGGAGGCGCGGGGAGAAGGCGACCATCAGCATCCAAGAGCATATGGCCATCGACGTGTGTC
 CCGGGCCCATCCGGCCTATCAAGCAGATCTCCGATTACTTCCCCCGCTTCCCGCGGGGCCCCCCCAC
 CGCCGCGCCCCGCGCCTCCGCGCCCCGGACGCCCCCGCGCGCTCGCCCGCAGCCACCGCCGGCCCCCGC
 AGCCCCCGACGCGCCCGCGACGACGACGAAGATGTGGACCAGCTCTCGGAGCCTACGGTCCAGCC
 CAGGCCCCAGCCCCGACCCAGCCCCGTGAGGCCGCGGCCAAGCCCCCGAGGACGAACCCGGACGCCGA
 CGGTACGAGTCAGACGACTGCACCGCCCTGGGTACACTGGACTTCAGTCTGCTCTATGACCAGGAGAAC
 AACGCACTGCACTGCACCATCAGCAAAGCCAAGGGCCTGAAGCCGATGGATCACAATGGACTGGCTGATC
 CCTACGTCAAACACTACTTGTGCTGCTGGAGCCAGCAAGGCAAATAAGCTCAGAACAAAAACCTACGGAA
 CACTCTGAACCCCTCCTGGAACGAGACCCTCACCTATTACGGGATCACGGATGAGGACATGATCCGAAAG
 ACCCTGAGGATCTCCGTGTGTGACGAGGACAAATCCGCCACAACGAGTTCATCGGAGAGACTCGAGTGC
 CCCTGAAGAAGCTGAAACCAACCACCAAGACATTACGATCTGCCTGGAGAAGCAGCTGCCGGTGA
 CAAGGCAGAGGACAAGTCCCTGGAGGAGCGTGGCCGCATCCTCATCTCTCAAGTACAGCTCACAGAAG
 CAGGGCCTGCTGGTGGGCATCGTTCGCTGCGCACACCTGGCGCCATGGATGCTAACGGCTACTCAGACC
 CCTACGTGAAAACATATCTGAAACCAGATGTAGACAAGAAATCCAAGCATAAGACCAGTCAAGAGAA
 AACACTAAACCCTGAATCAATGAGGAGTCTGTTACGAGATCAAGCATGGAGACCTAGCAAAAAGACC
 CTGGAGGTCAGTGTCTGGGACTATGATATTGAAAATCCAATGATTTTCATCGGTGGGGTGGTTCTGGGCA
 TCAATGCCAAGGGTGAGCGCCTGAAGCACTGGTTTGACTGTCTGAAGAACAAGGACAAGAGGATTGAGCG
 TTGGCACACGCTACCAATGAGATCCCAGGGGCTGTACTCAGCGAC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209688 representing NM_031142

Red=Cloning site Green=Tags(s)

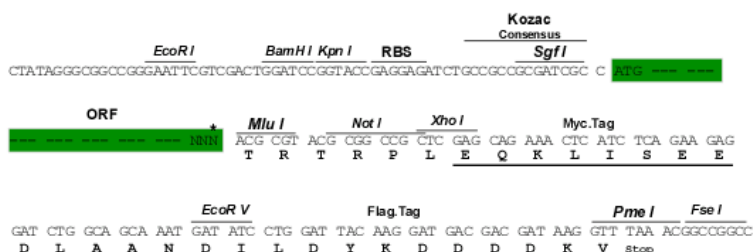
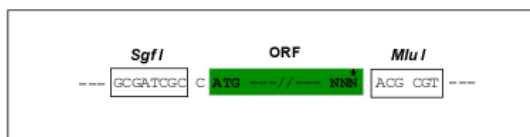
MTLRRRGEKATISIQEHMAIDVCPGPIRPIKQISDYFPRFPRGLPPTAAPRASAPPDAPARSPAATAGPR
SPSDGARDDDEDVDQLFGAYGASPGSPGPSVRPPAKPPEDEPDADGYESDDCTALGTLDLFDLFDYDQEN
NALHCTISKAKGLKPMHDHNLADPYVVKLHLLPGASKANKLRTKTLRNTLNPSWNETLTYGITDEDMIRK
TLRISVCDKDFRHNEFIGETRVPLKCLKPNHTKTFISICLEKQLPVDKAEDKSLEERGRILISLKYSSQK
QGLLVGIVRCAHLAAMDANGYSDPYVKTYLKPVDKSKSHKTAVKKTNLNPEFNEEFCYEIKHGDLAKKT
LEVTVWDYDIGKSNDFIGGVVLGINAKGERLKHWFDCLEKNDKRIERWHTLTNEIPGAVLSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_031142

ORF Size: 1236 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_031142.1](#), [NP_112404.1](#)

RefSeq Size: 1800 bp

RefSeq ORF: 1239 bp

Locus ID: 81820

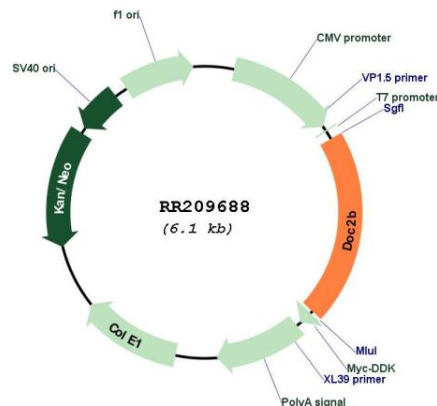
UniProt ID: [P70610](#)

Cytogenetics: 10q24

MW: 45.8 kDa

Gene Summary: mouse homolog is a calcium-dependent phospholipid binding protein involved in constitutive membrane trafficking [RGD, Feb 2006]

Product images:



Circular map for RR209688