

Product datasheet for **RR200101**

Bicd2 (NM_001033674) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bicd2 (NM_001033674) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bicd2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR200101 representing NM_001033674
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGATCGCC**

ATGTC**CGCCGCTCGGAGGAGGAGTATGCGCTGTTGATGGAGGCGCAGCCGGAGTGGCTGCGCC**
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Protein Sequence: >RR200101 representing NM_001033674
 Red=Cloning site Green=Tags(s)

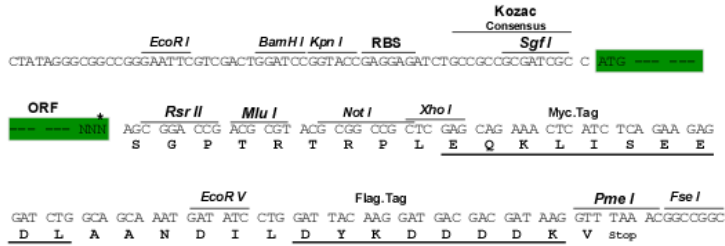
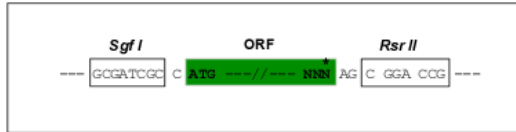
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Restriction Sites: SgfI-RsrII

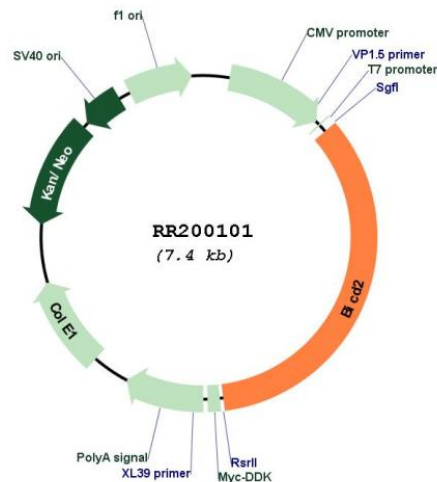
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001033674

ORF Size: 2553 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_001033674.2](#), [NP_001028846.1](#)

RefSeq Size: 6324 bp

RefSeq ORF: 2556 bp

Locus ID: 306809

Cytogenetics: 17p14

MW: 96.7 kDa

Gene Summary:

This gene encodes a dynein-dynactin adaptor protein. In mouse, the protein primarily localizes to the Golgi complex as well as to microtubule plus ends through dynactin. Overexpression studies suggest that the N-terminus mediates the dynein-dynactin interaction, while the C-terminus is responsible for Golgi targeting. Knockout of this gene in mouse results in a defect in cerebellar granule cell migration. In human, mutations in this gene are associated with spinal muscular dystrophy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]