

Product datasheet for **RR200102**

Bicd2 (NM_198765) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bicd2 (NM_198765) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bicd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR200102 representing NM_198765
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTC**CGCGCCGT**CGGAGGAGGAGTATGCGCGTCTGGT**GATGGAGGCGCAGCCGGAGTGGCTGCGCG**
 CCGAGGTGAAGCGACTGTCCACGAGCTGGCCGAAACCACGCGTGAGAAGATCCAGGCGGCCGAGTATGG
 ACTGGCGGTGCTTGAGGAGAAGCACCAGCTCAAGCTGCAGTTCGAGGAGCTCGAGGTGGACTATGAGGCC
 ATCCGCAGCGAGATGGAGCAGCTCAAAGAGGCATTTGGCCAGGCACACAAAACCACAAGAAGTGGCTG
 CTGATGGAGAGAGCCGGGAGGAGCCTGATCCAGGAGTCCGCCTCTAAGGAGCAGTACTATGTGCGGAA
 GGTGCTGGAGCTGCAGACAGAGCTGAAACAGCTGCGCAATGTCCTTATCAACACTCAGTCTGAGAATGAG
 CGCCTCACGTCTGTGGCCAGGAGCTGAAAGAGATCAACCAGAATGTGGAGATTCAGCGTGGTGCCTGC
 GAGATGACATCAAGGAGTACAAGTTCGGGAGGCCGCTACTTCAGGACTACTCTGAGCTGGAGGAGGA
 GAACATTAGCCTGCAGAAACAAGTGTCTGTGCTCAGGCAGAACCAGGTGGAATTTGAGGGCTCAAGCAT
 GAAATCAAGCGTCTGGAGGAGGAGACAGAGTACCTTAACAGCCAGCTGGAGGATGCCATCCGGCTTAAGG
 AGATCTCTGAACGGCAGTTGGAGGAAGCGCTGGAGACGTTGAAGACAGAGCGAGAGCAGAGAACAACCT
 ACGTAAGGAGTTGTGCGACTACATGAGCATCAACGATTCCTTCTATACCAGCCACCTGCAGGTATCCTTA
 GATGGCCTCAAGTTCAGTGATGATGCTGCTACTGCTGAGCCCAACAACGACGCCGAAGCCCTGGTCAATG
 GCTTTGAGCACAGCGCTTGGTCAAAGCGTCGTTGGACAACAAGACATCCACACCCAGAAAGGATGGCCT
 GGCTCCGCCCTCCCCAGCCTTGTTCGACCTGCTCAGTGAGCTCCACATATCTGAGATCCAGAAGCTG
 AAGCAGCAGCTGGTGCAGATGGAGCGGGAAGGTGGTCTGCTGGCGACATTACAGACACACAGAAGT
 AGTGAAGCAGGCTCGGGAAACCTCTCTGAGCAACATGAGAAGGTGAGTCGCTCACAGAGAACCTTAG
 TGCCCTCCGGCGCTGCAGGCTGGCAAGGAGCGACAGACTTCCCTGGATAACGAAAAGGACCGAGATAGC
 CATGAAGACGGTGACTACTATGAGGTTGACATCAATGGCCTGAGATCCTGTCCTGCAAGTACCATGTAG
 CTGTGGCCGAGGCTGGCGAGCTCCGGGAGCAGCTCAAGGCCCTGCACAGCACACATGAAGCTCGGGAAGC
 CCAGCTTGAGAAGAAAAGGGCCGCTATGAGGCTGAGGTCCAGGCTCTACTGAGAAGGTGCTACTGCTG
 GAGAAGGCTAGCCACCAGGACCAAGAGCTGCTGGCCAGCTGGAAAAGGAGCTGAGGAAGGTGAGTGACG
 TGGCTGGTGAGACCCAGGCGAGCTGAATGTGGCTCAGGATGAGTTGGTACCTTCACGAGGAGCTGGC
 CAATCTCTACCACCATGTGTGCATGTGCAACAACGAGACACCAACCGTGTGCTGACTATTACCGT
 GAGGGGCAGGGCAAGGCTGGCCGACCCAGCCAGAAGGCCGGGGCGCCGCTCGCCTGTCTTTTGGCCA
 AGGGGCTGTTGTGACAGAGATCGGCCGAGCAGATGGTGGACTGGGGACAACAGCCCTTACCCAGCTC
 TTCACTGCCATCACCATTGAGTGACCCCGCCGGGAACCTATGAACATCTACAACCTGATCGCCATCATC
 CGAGACCAGATCAAGCACCTGCAGGCAGCCGTAGATCGTACAACCGAGCTGTCCCGGCAGCGGATTGCC
 CACAGGAGCTGGGCCCTGCTGTGGATAAGGACAAGGAAGCACTCATGGAGGAGATCCTCAAGCTGAAGTC
 ACTGCTGAGTACCAAGAGGGAACAGATCACCACACTTCGTAAGTGTGCTCAAGGCTAACAAGCAGACGGCA
 GAGGTGGCCCTCGCAACCTGAAGAGCAAGTATGAGAATGAGAAGGCCATGGTGACCGAGACCATGATGA
 AGCTGCGGAACGAGCTGAAGGCCCTCAAGGAGGACGCAGCCACCTTCTCTCCCTGCGTGCCATGTTGCG
 CACCAGGTGTGATGAGTACATCACGCAGCTGGATGAGATGCAGCGCAGCTGGCGGCTGCCGAGGATGAG
 AAGAAGACTCTTAATTCCTGCTGCGCATGGCCATCCAGCAGAAGCTGGCACTACCCAGCGGCTGGAGC
 TGCTGGAGCTGGACCATGAGCAGACCCGAGGGCCGTAACAAGGCCACCTCCAAGGCCAAGCCAGCCAC
 ACCGAGCCTG

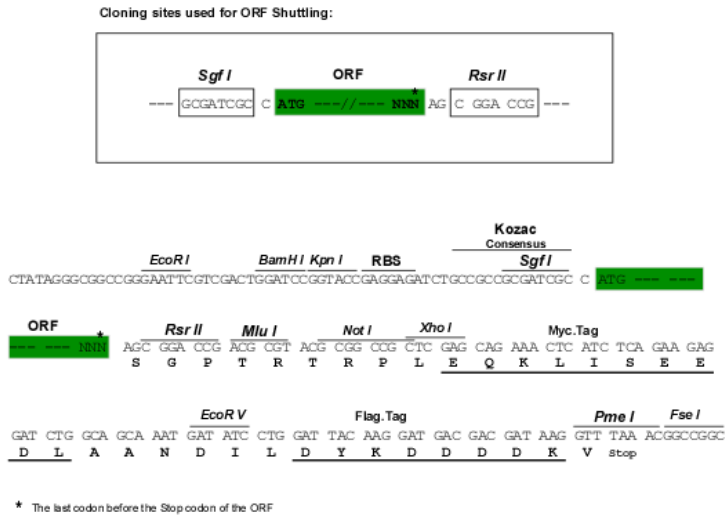
AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200102 representing NM_198765
 Red=Cloning site Green=Tags(s)

```
MSAPSEEEYARLVMEAQPEWLRAEVKRLSHELAETTREKIQAEEYGLAVLEEKHQLKLQFEELEVYEA
IRSEMEQLKEAFGOAHTNHKKVAADGESREESLIQESASKEQYYVRKVLLELQTELKQLRNVLINTQSENE
RLTSAQELKEINQNVIEIQRGRLRDDIKEYKFRERLLQDYSELEENISLQKQVSVLRQNQVFEGLKH
EIKRLEEETEYLNQLEDAIRLKEISERQLEEALETLKTEREQKNNLRKELSHYMSINDSFYTSHLQVSL
DGLKFSDDAVTAEPNDAEALVNGFEHSGLVKASLDNKTSTPRKDGLAPPSPSLVSDLLSELHISEIQKL
KQQLVQMEREKVGLLATLQDTQKQLEQARGTLEQHEKVSRLTENLSALRRLQAGKERQTSLDNEKDRDS
HEDGDYVEVDINGPEILSCKYHVAVAEAGELREQLKALHSTHEAREAQLAEEKGRYEAQVQALTEKVSLL
EKASHQDQELLAQLEKELRKVSDVAGETQGSLNVAQDELVTFSEELANLYHHVCMNNETPNRVMLDYR
EGQGKAGRTSPEGRGRRSPVLLPKGLLSTEIGRADGGTGDNSPSPSSSLPSLSDPRPREPMNIYNLIAII
RDQIKHLQAAVDRTEL SRQRIASQELGPAVDKDKEALMEEILKLSLLSTKREQITTLRTVLKANKQTA
EVALANLKSKEYENKAMVTETMMKLRNELKALKEDAATFSSLRAMFATRCDEYITQLDEMQRQLAAAEDE
KKTLNSLLRMAIQQLALTQRLELLELDHEQTRRGRNKATSKAKPATPSL
```

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:


ACCN: NM_198765

ORF Size: 2460 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_198765.3](#), [NP_942060.1](#)

RefSeq Size: 4589 bp

RefSeq ORF: 2463 bp

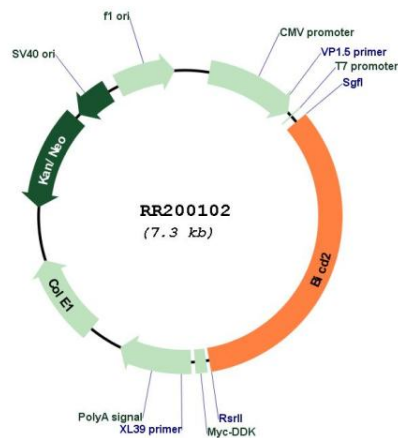
Locus ID: 306809

Cytogenetics: 17p14

MW: 93.4 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]

Product images:



Circular map for RR200102