

## Product datasheet for **RN200102**

### **Bicd2 (NM\_198765) Rat Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >RN200102 representing NM\_198765  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTC**CGCCGCTCGGAGGAGGAGTATGCGCGTCTGGT**GATGGAGGCGCAGCCGGAGTGGCTGCGCG  
 CCGAGGTGAAGCGACTGTCCACGAGCTGGCCGAAACCGCGTGAGAAGATCCAGGCGGCCGAGTATGG  
 ACTGGCGGTGCTTGAGGAGAAGCACCAGCTCAAGCTGCAGTTCGAGGAGCTCGAGGTGGACTATGAGGCC  
 ATCCGCAGCGAGATGGAGCAGCTCAAAGAGGCATTTGGCCAGGCACACAAAACCACAAGAAGGTGGCTG  
 CTGATGGAGAGAGCCGGGAGGAGAGCCTGATCCAGGAGTCCGCCTCTAAGGAGCAGTACTATGTGCGGAA  
 GGTGCTGGAGCTGCAGACAGAGCTGAAACAGCTGCGCAATGTCCTTATCAACACTCAGTCTGAGAATGAG  
 CGCCTCACGTCTGTGGCCAGGAGCTGAAAGAGATCAACCAGAATGTGGAGATTCAGCGTGGTGCCTGC  
 GAGATGACATCAAGGAGTACAAGTTCGGGAGGCCGCTACTTCAGGACTACTCTGAGCTGGAGGAGGA  
 GAACATTAGCCTGCAGAAACAAGTGTCTGTGCTCAGGCAGAACCAGGTGGAATTTGAGGGCTCAAGCAT  
 GAAATCAAGCGTCTGGAGGAGGAGACAGAGTACCTTAACAGCCAGCTGGAGGATGCCATCCGGCTTAAGG  
 AGATCTCTGAACGGCAGTTGGAGGAAGCGCTGGAGACGTTGAAGACAGAGCGAGAGCAGAGAACAACCT  
 ACGTAAGGAGTTGTGCGACTACATGAGCATCAACGATTCTTCTATACCAGCCACCTGCAGGTATCCTTA  
 GATGGCCTCAAGTTCAGTGATGATGCTGCTACTGCTGAGCCCAACAACGACGCCGAAGCCCTGGTCAATG  
 GCTTTGAGCACAGCGGCTTGGTCAAAGCGTCGTTGGACAACAAGACATCCACACCCAGAAAGGATGGCCT  
 GGCTCCGCCCTCCCCAGCCTTGTTCGACCTGCTCAGTGAGCTCCACATATCTGAGATCCAGAAGCTG  
 AAGCAGCAGCTGGTGCAGATGGAGCGGAGAAGGTGGTCTGCTGGCGACATTACAGACACACAGAAGC  
 AGCTAGAGCAGGCTCGGGAAACCCTCTCTGAGCAACATGAGAAGGTGAGTCGCTCACAGAGAACCCTTAG  
 TGCCCTCCGGCGCTGCAGGCTGGCAAGGAGCGACAGACTTCCCTGGATAACGAAAAGGACCGAGATAGC  
 CATGAAGACGGTGACTACTATGAGGTTGACATCAATGGCCTGAGATCCTGTCCTGCAAGTACCATGTAG  
 CTGTGGCCGAGGCTGGCGAGCTCCGGGAGCAGCTCAAGGCCCTGCACAGCACACATGAAGCTCGGGAAGC  
 CCAGCTTGAGAAGAAAAGGGCCGCTATGAGGCTGAGGTCCAGGCTCTACTGAGAAGGTGCTACTGCTG  
 GAGAAGGCTAGCCACCAGGACCAAGAGCTGCTGGCCAGCTGGAAAAGGAGCTGAGGAAGGTGAGTGACG  
 TGGCTGGTGAGACCCAGGCAGCCTGAATGTGGCTCAGGATGAGTTGGTGACCTCAGCGAGGAGCTGGC  
 CAATCTCTACCACCATGTGTGCATGTGCAACAACGAGACACCAACCGTGTGATGCTGGACTATTACCGT  
 GAGGGGCAGGGCAAGGCTGGCCGACCCAGCCAGAAGGCCGCGGGCGCCGCTCGCCTGTCTTTTGGCCA  
 AGGGGCTGTTGTGCAGAGAGATCGGCCGAGCAGATGGTGGACTGGGGACAACAGCCCTTACCCAGCTC  
 TTCACTGCCATCACCATTGAGTGACCCCGCCGGGAACCTATGAACATCTACAACCTGATCGCCATCATC  
 CGAGACCAGATCAAGCACCTGCAGGCAGCCGTAGATCGTACAACCGAGCTGTCCCGGCAGCGGATTGCC  
 CACAGGAGCTGGGCCCTGCTGTGGATAAGGACAAGGAAGCACTCATGGAGGAGATCCTCAAGCTGAAGTC  
 ACTGCTGAGTACCAAGAGGGAACAGATCACCACACTTCGTAAGTGTGCTCAAGGCTAACAAGCAGACGGCA  
 GAGGTGGCCCTCGCAACCTGAAGAGCAAGTATGAGAATGAGAAGGCCATGGTGACCGAGACCATGATGA  
 AGCTGCGGAACGAGCTGAAGGCCCTCAAGGAGGACGCAGCCACCTTCTCTCCCTGCGTGCCATGTTGCG  
 CACCAGGTGTGATGAGTACATCACGCAGCTGGATGAGATGCAGCGCAGCTGGCGGCTGCCGAGGATGAG  
 AAGAAGACTCTTAATTCCTGCTGCGCATGGCCATCCAGCAGAAGCTGGCACTACCCAGCGGCTGGAGC  
 TGCTGGAGCTGGACCATGAGCAGACCCGAGGGCCGTAACAAGGCCACCTCCAAGGCCAAGCCAGCCAC  
 ACCGAGCCTGTAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_198765  
**Insert Size:** 2463 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_198765.3</a> , <a href="#">NP_942060.1</a>
<b>RefSeq Size:</b>	4589 bp
<b>RefSeq ORF:</b>	2463 bp
<b>Locus ID:</b>	306809
<b>Cytogenetics:</b>	17p14
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) uses alternate splice sites in the 3' coding region and differs in the 3' UTR compared to variant 1. It encodes isoform 2, which has a shorter C-terminus than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>