

Product datasheet for **RN200101**

Bicd2 (NM_001033674) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bicd2 (NM_001033674) 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: >RN200101 representing NM_001033674
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTC**CGCGCC**GT**CGGAGGAGGAGT**ATGCGCGTCTGGT**GATGGAGGCGCAGCCGGAGTGGCTGCGCG**
 CCGAGGTGAAGCGACTGTCCACGAGCTGGCCGAAACCACGCGTGAGAAGATCCAGGCGGCCGAGTATGG
 ACTGGCGGTGCTTGAGGAGAAGCACCAGCTCAAGCTGCAGTTCGAGGAGCTCGAGGTGGACTATGAGGCC
 ATCCGCAGCGAGATGGAGCAGCTCAAAGAGGCATTTGGCCAGGCACACAAAACCACAAGAAGTGGCTG
 CTGATGGAGAGAGCCGGGAGGAGCCTGATCCAGGAGTCCGCCTCTAAGGAGCAGTACTATGTGCGGAA
 GGTGCTGGAGCTGCAGACAGAGCTGAAACAGCTGCGCAATGTCCTTATCAACACTCAGTCTGAGAATGAG
 CGCCTCACGTCTGTGGCCAGGAGCTGAAAGAGATCAACCAGAATGTGGAGATTCAGCGTGGTGCCTGC
 GAGATGACATCAAGGAGTACAAGTTCGGGAGGCCGCTACTTCAGGACTACTCTGAGCTGGAGGAGGA
 GAACATTAGCCTGCAGAAACAAGTGTCTGTGCTCAGGCAGAACCAGGTGGAATTTGAGGGCTCAAGCAT
 GAAATCAAGCGTCTGGAGGAGGAGACAGAGTACCTTAACAGCCAGCTGGAGGATGCCATCCGGCTTAAGG
 AGATCTCTGAACGGCAGTTGGAGGAAGCGCTGGAGACGTTGAAGACAGAGCGAGAGCAGAGAACAACCT
 ACGTAAGGAGTTGTGCGACTACATGAGCATCAACGATTCCTTCTATACCAGCCACCTGCAGGTATCCTTA
 GATGGCCTCAAGTTCAGT**GATGATGCTGCTCACTGCTGAGCCCAACAACGACGCCGAAGCCCTGGTCAATG**
 GCTTTGAGCACAGCGCTTGGTCAAAGCGTCTGGACAACAAGACATCCACACCCAGAAAGGATGGCCT
 GGCTCCGCCCTCCCCAGCCTTGTTCGACCTGCTCAGTGAGCTCCACATATCTGAGATCCAGAAGCTG
 AAGCAGCAGCTGGTGCAGATGGAGCGGGAAGGTGGTCTGCTGGCGACATTACAGGACACACAGAAGC
 AGCTAGAGCAGGCTCGGGAAACCTCTCTGAGCAACATGAGAAGGTGAGTCTCACAGAGAACCTTAG
 TGCCCTCCGGCGCTGCAGGCTGGCAAGGAGCGACAGACTTCCCTGGATAACGAAAAGGACCGAGATAGC
 CATGAAGACGGT**GACTACTATGAGGTTGACATCAATGGCCTGAGATCCTGTCCTGCAAGTACCATGTAG**
 CTGTGGCCGAGGCTGGCGAGCTCCGGGAGCAGCTCAAGGCCCTGCACAGCACACATGAAGCTCGGGAAGC
 CCAGCTTGAGAAAGAAAAGGCCGCTATGAGGCTGAGGTCCAGGCTCTCACTGAGAAGGTGCTACTGCTG
 GAGAAGGCTAGCCACCAGGACCAAGAGCTGCTGGCCAGCTGGAAAAGGAGCTGAGGAAGGTGAGTGACG
 TGGCTGGT**GAGACCCAGGCAGCCTGAATGTGGCTCAGGATGAGTTGGTACCTTCACGAGGAGCTGGC**
 CAATCTCTACCACCATGTGTGCATGTGCAACAACGAGACACCAACCGTGT**CATGCTGGACTATTACCGT**
 GAGGGGCAGGGCAAGGCTGGCCGACACGCCAGAAAGGCCGGGCGCCGCTCGCCTGTCTTTTGGCCA
 AGGGGGTGTGTGCAGAGAGATCGGCCGAGCAGATGGTGGACTGGGGACAACAGCCCTTACCCAGCTC
 TTCACTGCCATCACCATTGAGT**GACCCCGCCGGGAACCTATGAACATCTACAACCTGATCGCCATCATC**
 CGAGACCAGATCAAGCACCTGCAGGCAGCCGTAGATCGTACAACCGAGCTGTCCCGGCAGCGGATTGGCT
 CACAGGAGCTGGGCCCTGCTGTGGATAAGGACAAGGAAGCACTCATGGAGGAGATCCTCAAGCTGAAGTC
 ACTGCTGAGTACCAAGAGGGAACAGATCACCACACTTCGTA**CTGTGCTCAAGGCTAACAAGCAGACGGCA**
 GAGGTGGCCCTCGCAACCTGAAGAGCAAGTATGAGAATGAGAAGGCCATGGTGACCGAGACCATGATGA
 AGCTGCGGAACGAGCTGAAGGCCCTCAAGGAGGACGCAGCCACCTTCTCTCCCTGCGTGCCATGTT**CGC**
 CACCAGGTGTGATGAGTACATCACGCAGCTGGATGAGATGCAGCGGCAGCTGGCGCTGCCGAGGATGAG
 AAGAAGACTCTTAATTCCTGCTGCGCATGGCCATCCAGCAGAAGCTGGCACTACCCAGCGGCTGGAGC
 TGCTGGAGCTGGACCATGAGCAGACCCGAGGGCCGTAACAAGGCCACCTCAAAGGCCAAGCCAGCCAC
 ACCGAGCGTAAGT**CACACCTGCGCCTGTGCCAGCGAGAGGGCGGAGGGCACCGGGCTGGCCAACCAGGTG**
 TTCTGCAGCGAGAAGCACAGCATTACTGTGAT**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001033674
Insert Size: 2556 bp

OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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
Gene Summary:	<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 (1) represents the longer variant and encodes the longer 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>