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# Product datasheet for RC218807

## BICD1 (NM_001714) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | BICD1 (NM_001714) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | BICD1 |
| **Synonyms:** | bic-D 1; BICD |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**ORF Nucleotide Sequence:**

>RC218807 representing NM_001714
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCAGAAGAGGTATTGCAGACGGTGGACCATTATAAGACTGAGATAGAGAGGCTAACCAAGGAGC
TCACGGAGACCACCCACGAGAAGATCCAGGCTGCCGAGTACGGGCTGGTGGTGCTGGAGGAGAAGCTGAC
CCTCAAACAGCAGTATGATGAACTGGAGGCTGAGTACGACAGCCTCAAACAGGAGCTGGAGCAGCTCAAA
GAGGCATTTGGGCAGTCCTTCTCCATCCACCGGAAGGTTGCTGAAGATGGAGAGACTCGGGAGGAAACGC
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ACAAGGATGACGACGATAAGGTTTAA

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**Protein Sequence:**

>RC218807 representing NM_001714
Red=Cloning site Green=Tags(s)

MAAEEVLQTVDHYKTEIERLTKELTETTHEKIQAAEYGLVVLEEKLTLKQQYDELEAEYDSLKQELEQLK
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KENNEMVELQRIRMKDEIREYKFREARLLQDYTELEEENITLQKLVSTLKQNQVEYEGLKHEIKRFEEET
VLLNSQLEDAIRLKEIAEHQLEEALETLKNEREQKNNLRKELSQYISLNDNHISISVDGLKFAEDGSEPN
NDDKMNGHIHGPLVKLNGDYRTPTLRKGESLNPVSDLFSELNISEIQKLKQQLMQVEREKAILLANLQES
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PRLARRGVSSPVETRTSSEPVAKESTEASKEPSPTKTPTISPVITAPPSSPVLDTSDIRKEPMNIYNLNA
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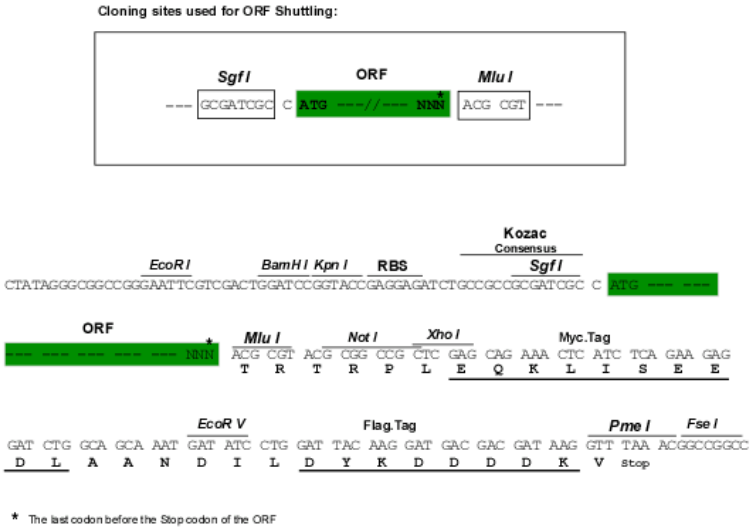
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk8021_a03.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_001714

**ORF Size:** 2925 bp

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|---|---|
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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. |
| **Note:** | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| **RefSeq:** | NM_001714.4 |
| **RefSeq Size:** | 3589 bp |
| **RefSeq ORF:** | 2928 bp |
| **Locus ID:** | 636 |
| **UniProt ID:** | Q96G01 |
| **Cytogenetics:** | 12p11.21 |
| **MW:** | 110.6 kDa |
| **Gene Summary:** | This gene encodes an adaptor protein that belongs to the bicaudal D family of dynein cargo adaptors. The encoded protein acts as an intracellular cargo transport cofactor that regulates the microtubule-based loading of cargo onto the dynein motor complex. It also controls dynein motor activity and coordination. It has a domain architecture consisting of coiled-coil domains at the N- and C-termini that are highly conserved in other family members. Naturally occurring mutations in this gene are associated with short telomere length and emphysema. [provided by RefSeq, Aug 2017] |

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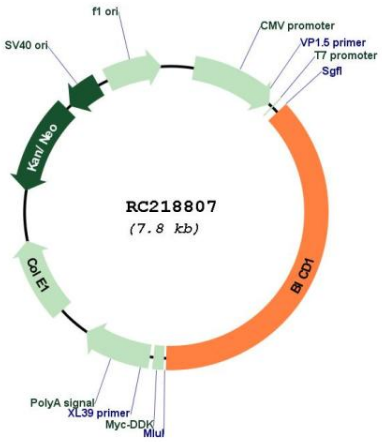
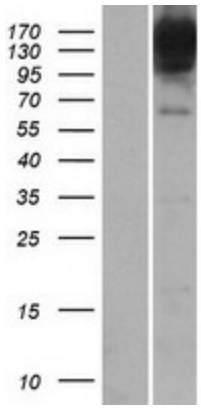
## Product images:




Circular map for RC218807




Western blot validation of overexpression lysate (Cat# [LY419784]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218807 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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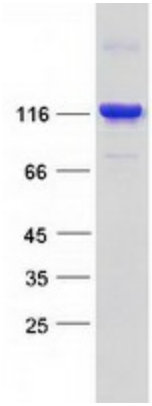


Coomassie blue staining of purified BICD1 protein (Cat# [TP318807]). The protein was produced from HEK293T cells transfected with BICD1 cDNA clone (Cat# RC218807) using MegaTran 2.0 (Cat# [TT210002]).

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