

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)



[View online »](#)

ORF Nucleotide Sequence:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGAAGAGGTATTGCAGACGGTGGACCATTATAAGACTGAGATAGAGAGGCTAACCAAGGAGC
 TCACGGAGACCACCCACGAGAAGATCCAGGCTGCCGAGTACGGGCTGGTGGTGTGGAGGAGAAGCTGAC
 CCTCAAACAGCAGTATGATGAACTGGAGGCTGAGTACGACAGCCTCAAACAGGAGCTGGAGCAGCTCAAA
 GAGGCATTTGGGAGTCTTCTCCATCCACCGAAGGTTGCTGAAGATGGAGAGACTCGGGAGGAAACGC
 TTCTGCAGGAGTCAGCATCGAAGGAGGCTTACTATCTGGGGAAGATCTTGGAGATGCAGAACGAGCTGAA
 ACAGAGCCGGGCTGTGGTCACTAATGTACAGGCAGAAAACGAGAGGCTCACCGCAGTCGTGCAGGATCTG
 AAGGAGAACAAATGAGATGGTGGAGCTACAGAGAATACGGATGAAGGATGAAATCCGAGAATAAAGTTCC
 GGGAGGCACGGCTCCTTCAGGACTATACTGAATGGAAGAAGAAAATATCACATTGCAGAACTAGTGTC
 CACGTTGAAGCAGAACCAGGTTGAATACGAAGGCTTAAAGCATGAGATTAAGCGATTTGAGGAGGAGACG
 GTACTGCTGAACAGCCAGCTGGAAGATGCCATCCGATTGAAAGAGATTGCTGAGCACCAACTGGAAGAAG
 CCCTCGAGACTTTAAAAAATGAAAGAGAGCAAAAAGAACAACCTGCGGAAGGAGCTCTCCAGTATATCAG
 CCTCAATGATAACCATATCAGCATCTCAGTAGATGGACTCAAATTTGCCGAGGATGGGAGTGAACCAAAAC
 AATGATGACAAAAATGAACGGTCAATCCATGGGCTCTTGTGAAACTGAAATGGAGACTATCGGACTCCCA
 CCTTAAGGAAAGGAGAGTCTCTGAACCTGTCTCTGACTTATTCAGTGAGCTGAACATTTAGAAAATACA
 GAAGTTGAAGCAGCAGCTTATGCAGGTAGAGCGGGAAAAGGCCATTCTTTGGCCAACCTACAGGAGTCA
 CAGACACAGCTGGAACACACCAAGGGGGCACTGACGGAGCAGCATGAGCGGGTGCACCGGCTCACAGAGC
 ACGTCAATGCCATGAGGGGCTGCAAAAGCAGCAAGGAGCTCAAGGCTGAGCTGGACGGGAGAAGGGCCG
 GGACTCAGGGGAGGAGGCCATGACTATGAGGTGGACATCAATGGTTTAGAGATCCTTGAATGCAAATAC
 AGGGTGGCAGTAACTGAGGTGATTGATCTGAAAGCTGAAATTAAGGCCTTAAAGGAGAAATATAATAAAT
 CTGTAGAAAACACTACTGATGAGAAGGCCAAGTATGAGAGTAAAAATCCAGATGTATGATGAGCAGGTGAC
 AAGCCTTGAGAAGACCACCAAGGAGAGTGGTGAAGAATGGCCACATGGAGAAGGAGTTGCAAAAAGATG
 ACCAGCATAGCCAACGAAAATCACAGTACCCTTAATACGGCCAGGATGAGTTAGTGACATTCAGTGAGG
 AGTTAGCTCAGCTTTACCACCATGTGTCTATGTAATAATGAACTCCCAACAGGGTATGCTGGATTA
 CTATAGGCAGAGCAGAGTCACCCGAGTGGCAGCCTGAAAGGGCCGATGATCCAGAGGACTTTTGTCC
 CCACGATTAGCCAGGCGGGTGTGTATCCCGGTAGAAAACAAGGACCTCATCTGAACAGTTGCAAAAAG
 AAAGCACAGAGGCCAGCAAAAGAACAAGTCCAACCTAAGACCCCAATCTCTCCTGTTATTACTGCCCC
 ACCGTCATCTCCAGTATTGGATACAAGTACATCCGAAAAGGCCAATGAATATCTACAACCTTAATGCC
 ATAATCCGGGACCAAAATCAAGCATCTGCAGAAAGCTGTGGACCGTCTTGAACCTGTCTCGTCAAAGAG
 CAGCGGCTCGGGAGCTAGCCCCATGATTGATAAAGACAAGGAAGCCTTAATGGAAGAGATCCTCAAGCT
 AAAGTCCCTGCTGAGCACAAACGGGAGCAGATCGCCACATTGAGGGCGGTGTTGAAAGCCAACAAGCAG
 ACAGCTGAGGTGGCGCTAGCTAATCTCAAGAACAATAATGAAAATGAAAAGCAATGGTACTGAAACCA
 TGACGAAGCTTAGAAAATGAACTGAAGGCTTTGAAAGAAGATGCTGCAACCTTCTCATCCCTGAGAGCAAT
 GTTTGCAACAAGATGTGATGAATATGTCACCCAGTTGGATGAGATGCAGAGACAGTTAGCAGCTGCAGAG
 GATGAGAAGAAGACTCTGAACACTTTGTTACGAATGGCTATCCAGCAAAAACCTCGCCCTGACCCAGAGGC
 TGGAGGACTTAGAGTTTGACCATGAGCAGTCCCGACGCAGCAAAGGCAAACTTGGAAAGGACAAGATCGG
 CAGCCCTAAAGTAAGTGGGGAGGCATCAGTCACCGTGCCACCATAGACACTTACCTCCTGCATAGTCAG
 GGCCACAGACACCCAACATTCGGGTCAGCAGTGGCACTCAGAGGAAAAGACAATTTTACCTTCCCTTT
 GTGATCAGAGCCGTCCAGGACTTCAGGGGCTTCCACCTACAGAATTTATTAAGAGTTCCTCCCTGATCC
 CACCTCCACAGAATCATTTCTTGAAGGGCCCCCTTCCATGAGTGAATTCATCAAGGGCACCGGCTC
 AGCAAGGAAAAAAGTTAACCGTGGCTCCACCAGATTGTCAGCAGCTGTGCCTCCGTACCGCCACAGT
 GCTCACAACCTAGCCGGGAGGCAAGACTGCCCACTGTCAGTCTGACACAGCTCTCCTGAGGAGCAGCC
 ACATTCAGCTCCAGTGCGCCCTCTCCACTGTCTCTCAAGCCTCCTCACCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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

MAAEEVLQTVDPHYKTEIERLTKELTETTHEKIQAAYGLVVEEKLTLKQQYDELEAEYDSLKQLEQLK
 EAFGQFSIHRKVAEDGETREETLLQESASKEAYLKGILEMQNELKQSRVVTNVQAENERLTAVVQDL
 KENNEMVELQRIRMKDEIREYKFRARLLQDYTELEENITLQKLVSTLKQNVVEYGLKHEIKRFEET
 VLLNSQLEDAIRLKEIAEHQLEEALETLNKEREQKNNLRKELSQYISLNDNHISISVDGLKFAEDGSEPN
 NDDKMNGHIHGPLYKLNQDYRPTLRKGESLNPVSDLFSELNISEIQKLKQQLMQVEREKAILLANLQES
 QTQLEHTKGALTEQHERVHRLTEHVNAMRGLQSSKELKAELDGEKGRDSGEEAHDYEVINGLEILECKY
 RVAVTEVIDLKAIEKALKEKYNKSVENYDEKAKYESKIQMYDEQVTSLEKTTKESGKMAHMEKELQKM
 TSIANENHSTLNTAQDELVTFSEELAQLYHHVCLCNETPNRVMLDYRQSRVTRSGSLKGPDDPRGLLS
 PRLARRGVSSPVETRTSSEPAKESTEASKEPSPTKTPTISPVITAPPSSPVLDTSIRKPMNIYNLNA
 IIRDQIKHLQKAVDRSLQLSRQAAAARELAPMIDKKEALMEEILKLSLLSTKREQIATLRAVLKANKQ
 TAEVALANLKNKYENKAMVTEMTKLRNELKALKEDAATFSSLRAMFATRCDEYVTLDEMQRQLAAAE
 DEKKTLLNTLLRMAIQQLALQRLLEDLEFDHEQSRRSKGLGKSKIGSPKVSGEASVTVPTIDTYLLHSQ
 GPQTPNIRVSSGTQRKRQFSPSLCDQSRPRTSGASYLQNLRLRVPDPTSTESFLLKGPSSMSEFIQGHRL
 SKEKRLTVAPDCQQAASVPPQCSQLAGRQDCPTVSPDTPALPEEQPHSSQCAPLHCLSKPPHP

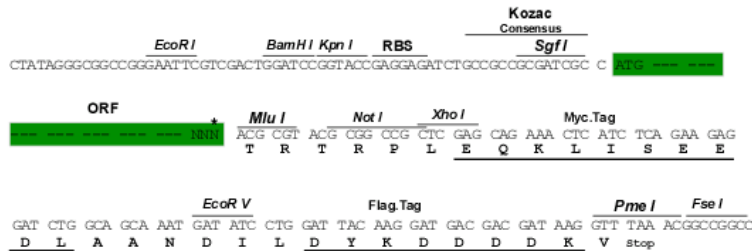
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



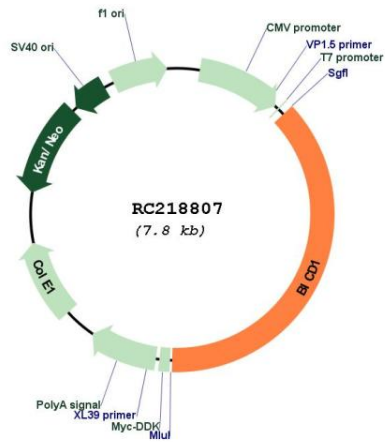
* The last codon before the Stop codon of the ORF

ACCN: NM_001714

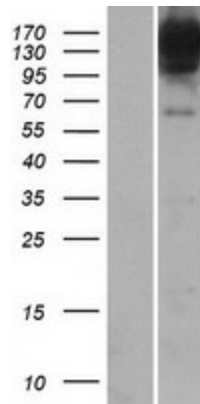
ORF Size: 2925 bp

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:	<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_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]

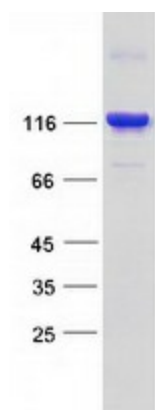
Product images:



Circular map for RC218807



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



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]).