

Product datasheet for **RC207521**

BLU (ZMYND10) (NM_015896) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BLU (ZMYND10) (NM_015896) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BLU
Synonyms:	BLU; CILD22; DNAAF7; FLU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207521 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGACCTGGAAGTCTGCTGCCCGGGGAAGCTGAAGTGTGCTGGTCCGGGGTCTGCGCAGCTTCCCGC
 TACGCGAGATGGGCTCCGAAGGGTGAACACAGCAGCATGAGAACCCTGGAGAAGCTGAACATGCAAGCCAT
 CCTCGATGCCACAGTCAAGCCAGGGCGAGCCATTCAAGGAGCTGCTGGTCAACCCATGGGAAGTCCCAACA
 CTGGTGGAGGAGCTGATCGCAGTGGAGATGTGGAAGCAGAAGGTGTTCCCTGTGTTCTGCAGGGTGGAGG
 ACTTCAAGCCCCAGAACACCTTCCCATCTACATGGTGGTGCACCACGAGGCCTCCATCATCAACCTCTT
 GGAGACAGTGTCTTCCACAAGGAGGTGTGTGAGTCAGCAGAAGACACTGTCTTGGACTTGGTAGACTAT
 TGCCACCGCAAACCTGACCCTGCTGGTGGCCAGAGTGGCTGTGGTGGCCCCCTGAGGGGGAGGGATCCC
 AGGACAGCAACCCATGCAGGAGCTGCAGAAGCAGGCAGAGCTGATGGAATTTGAGATTGCACTGAAGGC
 CCTCTCAGTACTACGCTACATCACAGACTGTGTGGACAGCCTCTCTCAGCACCTTGAGCCGTATGCTT
 AGCACACACAACCTGCCCTGCCTCCTGGTGAACCTGCTGGAGCATAGTCCCTGGAGCCGGCGGGAAGGAG
 GCAAGCTGCAGCAGTTCGAGGGCAGCCGTTGGCATACTGTGGCCCCCTCAGAGCAGCAAAAGCTGAGCAA
 GTTGGACGGGCAAGTGTGGATCGCCCTGTACAACCTGCTGCTAAGCCCTGAGGCTCAGGCGCGCTACTGC
 CTCACAAGTTTTGCCAAGGGACGGCTACTCAAGCTTCGGGCCCTTCTCACAGACACACTGCTGGACCAGC
 TGCCCAACCTGGCCCACTTGCAAGTTCCTGGCCATCTGACCCTAACCTGAAACCCAGCCTCCTAAGAA
 GGACCTGGTGTGGAACAGATCCCAGAAATCTGGGAGCGGCTGGAGCGAGAAAACAGAGGCAAGTGGCAG
 GCAATTTGCAAGCACCAGCTCCAGCATGTGTTAGCCCCCTCAGAGCAGGACCTGCGGCTGCAGGCGCGAA
 GGTGGGCTGAGACCTACAGGCTGGATGTGCTAGAGGCAGTGGCTCCAGAGCGGCCCGCTGTGCTTACTG
 CAGTGCAGAGGCTTCTAAGCGCTGCTCACGATGCCAGAATGAGTGGTATTGCTGCAGGGAGTGCCAAGTC
 AAGCACTGGGAAAAGCATGGAAGACTTGTGCTCCTGGCAGCCAGGGTGACAGAGCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207521 protein sequence
 Red=Cloning site Green=Tags(s)

MGDLELLLPGEAEVLRGLRSFPLREMGSEGWQHENLEKLNMQAILDATVSQGEPIQELLVTHGKVP
 LVEELIIVEMWKQKVPVFCRVEDFKPQNTFPIYVVHHEASIIINLLETFFHKEVCEAESDVLVDY
 CHRKLTLLVAQSGCGPPEGEQSDSNPMQELQKQAELEFEIALKALSVLRYITDCVDSLSTLSRML
 STHNLPCLLVELLEHSPWSRREGGKLQFEGSRWHTVAPSEQQKLSKLDGQVWIALYNLLSPEAQARYC
 LTSFAKGRLLKLRFLDTLLDQLPNLAHLQSFLAHLTLTETQPPKDLVLEQIPEIWERLERENRGKWQ
 AIAKHQLQHVFSPEQDLRLQARRWAETYRLDVLEAVAPERPRCAYSAEASKRCSRCQNEWYCCRECV
 KHWEKHGKTCVLAQGDRAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6335_f06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_015896

ORF Size: 1320 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

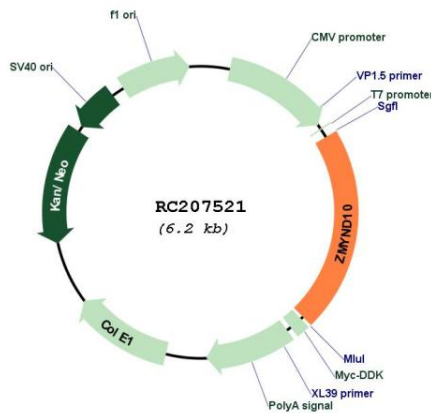
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_015896.4](#)

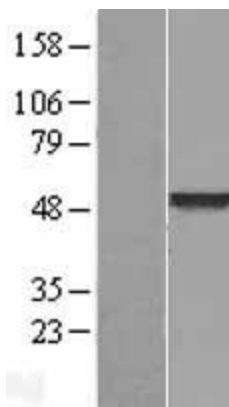
RefSeq Size: 1780 bp
 RefSeq ORF: 1323 bp
 Locus ID: 51364
 UniProt ID: [O75800](#)
 Cytogenetics: 3p21.31
 MW: 50.3 kDa

Gene Summary: This gene encodes a protein containing a MYND-type zinc finger domain that likely functions in assembly of the dynein motor. Mutations in this gene can cause primary ciliary dyskinesia. This gene is also considered a tumor suppressor gene and is often mutated, deleted, or hypermethylated and silenced in cancer cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2015]

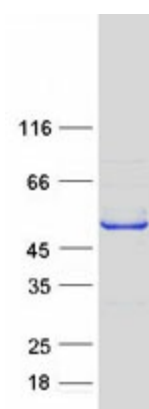
Product images:



Circular map for RC207521



Western blot validation of overexpression lysate (Cat# [LY414328]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207521 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZMYND10 protein (Cat# [TP307521]). The protein was produced from HEK293T cells transfected with ZMYND10 cDNA clone (Cat# RC207521) using MegaTran 2.0 (Cat# [TT210002]).