

Product datasheet for **RG207521**

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:	TurboGFP
Symbol:	BLU
Synonyms:	BLU; CILD22; DNAAF7; FLU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207521 representing NM_015896 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGACCTGGAAGTCTGCTGCTGCCCGGGGAAGCTGAAGTGTGGTGCAGGGTCTGCGCAGCTTCCCGC
TACGCGAGATGGGCTCCGAAGGGTGAACACAGCAGCATGAGAACCTGGAGAAGCTGAACATGCAAGCCAT
CCTCGATGCCACAGTCAGCCAGGGCGAGCCATTGAGGAGCTGCTGGTACCCATGGGAAGGTCCCAACA
CTGGTGGAGGAGCTGATCGCAGTGGAGATGTGGAAGCAGAAGGTGTTCCCTGTGTTCTGCAGGGTGGAGG
ACTTCAAGCCCCAGAACACCTTCCCATCTACATGGTGGTGCACCACGAGGCCTCCATCATCAACCTCTT
GGAGACAGTGTTCCTCCACAAGGAGGTGTGTGAGTCAGCAGAAGACACTGTCTTGACTTGGTAGACTAT
TGCCACC GCCAACTGACCTGCTGGTGGCCAGAGTGGCTGTGGTGGCCCCCTGAGGGGGAGGGATCCC
AGGACAGCAACCCATGCAGGAGCTGCAGAAGCAGGCAGAGCTGATGGAATTTGAGATTGCACTGAAGGC
CCTCTCAGTACTACGCTACATCACAGACTGTGTGGACAGCCTCTCTCAGCACCTTGAGCCGTATGCTT
AGCACACAACTGCCCTGCCTCCTGGTGAAGTGTGGAGCATAGTCCCTGGAGCCGGCGGGAAGGAG
GCAAGCTGCAGCAGTTCGAGGGCAGCCGTTGGCATACTGTGGCCCCCTCAGAGCAGCAAAAGCTGAGCAA
GTTGGACGGGCAAGTGTGGATCGCCCTGTACAACCTGTGCTAAGCCCTGAGGCTCAGGCGCGCTACTGC
CTCACAAGTTTTGCAAGGGACGGCTACTCAAGCTTCGGGCCCTCCTCACAGACACACTGCTGGACCAGC
TGCCCAACCTGGCCACTTGACAGATTTCTGGCCATCTGACCATAACTGAAACCCAGCCCTCTAAGAA
GGACCTGGTGTGGAACAGATCCAGAAATCTGGGAGCGGCTGGAGCGAGAAAACAGAGGCAAGTGGCAG
GCAATTGCCAAGCACCAGCTCCAGCATGTGTTAGCCCCCTCAGAGCAGGACCTGCGGCTGCAGGCGCGAA
GGTGGGCTGAGACCTACAGGCTGGATGTGCTAGAGGCAGTGGCTCCAGAGCGGCCCGCTGTGCTTACTG
CAGTGCAGAGGCTTCTAAGCGCTGCTCACGATGCCAGAATGAGTGGTATTGCTGCAGGGAGTGCCAAAGTC
AAGCACTGGGAAAAGCATGAAAAGACTTGTGCTCCTGGCAGCCAGGGTGACAGAGCCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207521 representing NM_015896
 Red=Cloning site Green=Tags(s)

MGDLELLLPGAEVLVRGLRSFPLREMGSEGWNQQHENLEKLNMQAILDATVVSQGEPIQELLVTHGKVP
 LVEELIIVEMWQKVFVFCRVEDFKPQNTFPIYVVHHEASIIINLLETVFFHKEVCESAEDTVLDLVDY
 CHRKLLTLLVAQSGCGPPEGEQSQDSNPMQELQKQAELEMEFEIALKALSVLRYITDCVDSLSTLSRML
 STHNLPCLLVELLEHSPWSRREGGKLQQFEGSRWHTVAPSEQQKLSKLDGQVWIALYNLLLSPEAQARYC
 LTSFAKGRLLKLRFLTDLLDQLPNLAHLQSFLAHLTLTETQPPKDLVLEQIPEIWERLERENRGKWQ
 AIAKHQLQHVSPSEQDLRLQARRWAETYRLDVLEAVAPERPRCAAYCSAEASKRCSRCQNEWYCCRECQV
 KHWEKHGKTCVLAAGQDRAK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015896

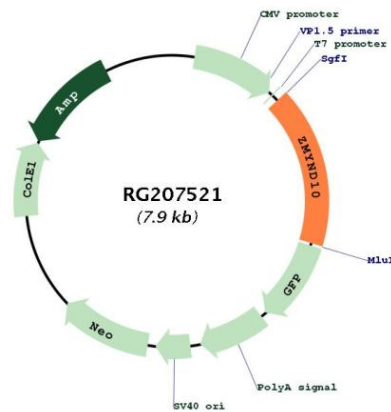
ORF Size: 1320 bp

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:	<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_015896.4
RefSeq Size:	1780 bp
RefSeq ORF:	1323 bp
Locus ID:	51364
UniProt ID:	O75800
Cytogenetics:	3p21.31
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 RG207521