

## Product datasheet for RC219902

### UNC119B (NM\_001080533) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UNC119B (NM_001080533) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UNC119B
Synonyms:	POC7B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219902 representing NM_001080533 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGGGTCTAACCCGAAGGCTGCGGCCGCGGCGTCGGCGGCTGGGCCGGGGGGCTGGTGGCTGGCA  
AGGAGGAGAAGAAGAAGGCGGGCGGCGGCGTCTGAACCGCTGAAGGCGCGGCGGCGAGGCGCCACCA  
CGCGGCCGACGACGGCGTCGGGGCAGCGGTCACGGAGCAGGAGCTGCTGGCGCTGGACACCATCCGGCCC  
GAGCACGTCCTGCGCCTCAGCCGGGTACCGAGAATTATTTATGTAACCCGAAGACAACATCTACAGTA  
TTGATTTACCCGCTTCAAATTCGAGATTTGGAGACAGGACAGTACTTTTTGAGATTGCCAAACCTTG  
CGTTTCAGACCAGGAGGAGGATGAGGAGGGAGGTGGAGACGTGGACATCAGCGCAGGACGTTTTGTC  
CGCTATCAGTTCACACCGCATTCTCCGCCTCCGGACAGTCGGGGCTACGGTGGAGTTCACAGTGGGAG  
ACAAACCTGTTTCAAACCTCCGGATGATCGAACGGCACTATTTCCGGGAACACTTGCTGAAAACTTTGA  
CTTTGATTTGGCTTCTGCATCCCAGCAGTAGGAACACTTGGAACATATCTATGAGTTTCCCAGCTT  
TCGGAGGATGTCATTGCTAATGATTGAAAATCCTTACGAGACCCGCTCTGACAGCTTCTACTTTGTTG  
ACAACAAGCTGATAATGCACAACAAGGCTGATTATGCCTATAATGGAGGCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC219902 representing NM\_001080533  
Red=Cloning site Green=Tags(s)

MSGSNPKAAAAASAAGPGLVAGKEEKKKAGGGVLNRLKARRQAPHAADDGVGAAVTEQELLALDTIRP  
 EHVLRLSRVTENYLCKPEDNIYSIDFTRFKIRDLETGTVLFEIAKPCVSDQEEDDEEGGGDVISAGR  
 RYQFTPAFLRLRTVGATVEFTVGDKPVSNFRMIERHYFREHLLKNFDFDFGFCIPSSRNTCEHIYEFPQL  
 SEDVIRLMIENPYETRSDSFYFVDNKLIMHNKADYAYNGGQ

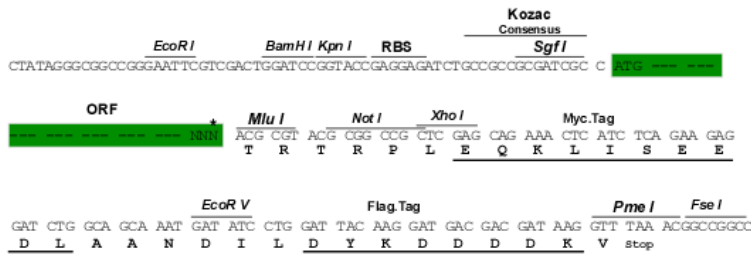
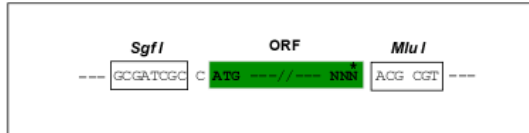
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8019\\_a06.zip](https://cdn.origene.com/chromatograms/mk8019_a06.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\_001080533

**ORF Size:** 753 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:**

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\\_001080533.3](#)

**RefSeq Size:** 4811 bp

**RefSeq ORF:** 756 bp

**Locus ID:** 84747

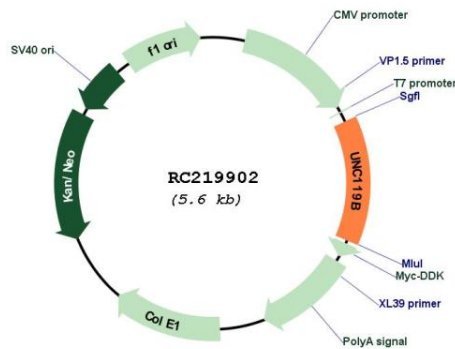
**UniProt ID:** [A6NIH7](#)

**Cytogenetics:** 12q24.31

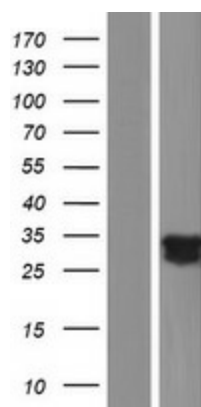
**MW:** 28 kDa

**Gene Summary:** Myristoyl-binding protein that acts as a cargo adapter: specifically binds the myristoyl moiety of a subset of N-terminally myristoylated proteins and is required for their localization. Binds myristoylated NPHP3 and plays a key role in localization of NPHP3 to the primary cilium membrane. Does not bind all myristoylated proteins. Probably plays a role in trafficking proteins in photoreceptor cells.[UniProtKB/Swiss-Prot Function]

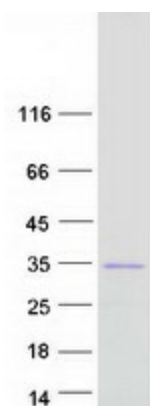
### Product images:



Circular map for RC219902



Western blot validation of overexpression lysate (Cat# [LY421088]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219902 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UNC119B protein (Cat# [TP319902]). The protein was produced from HEK293T cells transfected with UNC119B cDNA clone (Cat# RC219902) using MegaTran 2.0 (Cat# [TT210002]).