

## Product datasheet for **MR222485**

### Poc1b (NM\_027740) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Poc1b (NM_027740) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Poc1b
Synonyms:	4933430F16Rik; Wdr51b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR222485 representing NM\_027740  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTCCGGCCTGGAGGATCCGATTCTGGAACGTTCTTTAAAGGTCACAAAGCTGCCATCACCTCCG  
 CTGACTTCAGCCCAACTGCAAACAAATTGCTACTGCTTCGTGGGACACCTTTCTCATGCTATGGAGTTT  
 GAAGCCACACGCTAGAGCTTACAGATACGTGGGCCACAAGGATGTTGTAACCAGCCTGCAGTTCTCGCCA  
 CAAGGAAACCTATTAGCCTCTGCCTCGAGGGACAGAAGTGTAGACTGTGGGTTCTTGATAGGAAAGGGA  
 AGTCTTCAGAATTTAAAGCACACACAGCCCAAGTTCGGAGTGTGGACTTTTCCGCTGATGCCAGCTTTT  
 GGTTACAGCATCTGAAGATAAATCCATTAAGTGTGGAGTATGTTCCGTCAGCGCTTCTCTACTCCCTG  
 TATCGACACACACTGGGTACGCTGCGCAAATTTTACCTGACGGAAGTTGATCGTGCATGTAGTG  
 AGGATAAACTATTAATTTGGGACACTACCAATAAGCAGTGCCTTAATAACTTCTCAGACTCTGTAGG  
 ATTTGCAATTTTGTGGATTTTAAACCCCAACGGCACATGCATCGCTTCCAGAGTTCTGACCATGCTGTG  
 AAAATCTGGGATATAAGAATGAACAAATTAATCCAGCACTACCAAGTTCACAGCTGCGGTGTGAAGTGC  
 TGTCTTCCATCCTTTGGGTAACAGCCTTGTACCCGCTTCTGATGGAACAGTTAAGATGCTGGATCT  
 CATAGAGGGAAGACTCATATACACACTTCAAGGACATACGGGGCCGCTTTACCCTTTCATTTTCGAAG  
 GACGGAGAGCTGCTTACATCAGGCGGGGACAGTGCAGGCTTGTGTTGGAGGACCAACTTCATTCACC  
 TGCCTGTAAAGATCCTAAAAGAAACCTCAAAGACTGCCTTTGAGGCCTCCCAACCTTCTTGACAT  
 CTACCCACGGTACCAGCATTCCCATGAAGACAGAAAGGAGACTATTGAAATTAATCCAAGCGTGAGGTG  
 ATGGATTTGCAGAGCTCGTCTCCCCCGTGGTGGATGTCCTTTCTTTCGATTCAACCACAATGACGGATT  
 CCACCTATCGAGCTGTGCCAGGCAAGGTGAAGACATCTGTAGTATTTCTTGAACCTTTGTTAATGCC  
 AGAATGTTTCATCCACAACCTGTGAAAAAGAGACCAAGAGATGTAAGTGTGTCCTCCGAAAGCCTGAGG  
 AGCGTCCCGCTGCGGTTGGCTGACGCACTGGAGCACATTATGGAACAACCAACATCCTAACCCAGACTG  
 TTTCAATTCTGGAGCAGCGACTGTCTTTGACAGAAGATAAGCTGAGAGACTGCCTTGAGAATCAGCAAAA  
 GCTTTTCAGCGCTGTCCAACAGAAGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR222485 representing NM\_027740  
 Red=Cloning site Green=Tags(s)

MASGLEDPILERSFKGHKAAITSADFSNCKQIATASWDTFLMLWSLKPHARAYRYVGHKDVVTSLQFSP  
 QGNLLASASRDRTVRLWVLDKRGKSSFEKAHTAPVRSVDF SADGQLLVASEDKSIKVVSMFRQRFYSL  
 YRHTHWVRCAKFSPDGRLLIVSCSEDKTIKIWDTTNKQCVNNFSDSVGFANFVDFNPNGTICIASAGSDHAV  
 KIWDIRMNKLLQHYQVHSCGVNCLSFHPLGNLVTASSDGTVMKLDLIEGRLIYTLQHGTPVFTVSF SK  
 DGELLTSGGADAQVLIWRTNFIHLHCKDPKRNLRKLFHFEASPHLLDIYPRSPHSHEDRKETIEINPKREV  
 MDLQSSPPVVDVLSFDSTTMDSTYRAVPGKEDI CRYFLNPLLMPECSSTTVKKRPEDVSDVPSESLR  
 SVPLAVADALEHIMEQLNILTQTVSILEQRLSLTEDKLRDCLNQKLFSAVQQKS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9086\\_c12.zip](https://cdn.origene.com/chromatograms/mm9086_c12.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_027740

ORF Size: 1428 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\\_027740.7](#)

RefSeq Size: 2727 bp

RefSeq ORF: 1431 bp

Locus ID: 382406

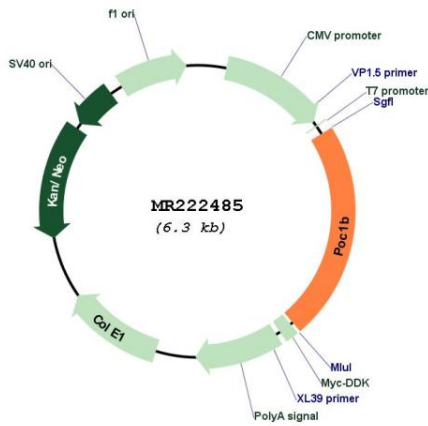
UniProt ID: [Q8BHD1](#)

Cytogenetics: 10 C3- D1

**MW:** 53.5 kDa

**Gene Summary:** Plays an important role in centriole assembly and/or stability and ciliogenesis. Involved in early steps of centriole duplication, as well as in the later steps of centriole length control. Acts in concert with POC1A to ensure centriole integrity and proper mitotic spindle formation. Required for primary cilia formation, ciliary length and also cell proliferation. Required for retinal integrity.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222485