

Product datasheet for **MG222485**

Poc1b (NM_027740) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Poc1b (NM_027740) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Poc1b
Synonyms:	4933430F16Rik; Wdr51b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222485 representing NM_027740
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCTCCGGCCTGGAGGATCCGATTCTGGAACGTTCTTTAAAGGTCACAAAGCTGCCATCACCTCCG
 CTGACTTCAGCCCAACTGCAAACAAATTGCTACTGCTTCGTGGGACACCTTTCTCATGCTATGGAGTTT
 GAAGCCACACGCTAGAGCTTACAGATACGTGGGCCACAAGGATGTTGTAACCAGCCTGCAGTTCTCGCCA
 CAAGGAAACCTATTAGCCTCTGCCTCGAGGGACAGAAGTGTAGACTGTGGGTTCTTGATAGGAAAGGGA
 AGTCTTCAGAATTTAAAGCACACACAGCCCAAGTTCGGAGTGTGGACTTTTCCGCTGATGCCAGCTTTT
 GGTTACAGCATCTGAAGATAAATCCATTAAGTGTGGAGTATGTTCCGTCAGCGCTTCTCTACTCCCTG
 TATCGACACACACTGGGTACGCTGCGCAAATTTTACCTGACGGAAGTTGATCGTGCATGTAGTG
 AGGATAAACTATTAATTTGGGACACTACCAATAAGCAGTGCCTTAATAACTTCTCAGACTCTGTAGG
 ATTTGCAAATTTGTGGATTTTAAACCCCAACGGCACATGCATCGCTTTCAGCAGGTTCTGACCATGCTGTG
 AAAATCTGGGATATAAGAATGAACAAATTACTCCAGCACTACCAAGTTCACAGCTGCGGTGTAAGTGTG
 TGTCTTCCATCCTTTGGGTAACAGCCTTGTACCCGCTCTTCTGATGGAACAGTTAAGATGCTGGATCT
 CATAGAGGGAAGACTCATATACACACTTCAAGGACATACGGGGCCGCTTTACCAGTTTCATTTTCGAAG
 GACGGAGAGCTGCTTACATCAGGCGGGGACAGTGCAGGCTTGTATTTGGAGGACCAACTTCATTCACC
 TGCCTGTAAAGATCCTAAAAGAAACCTCAAAGACTGCCTTTGAGGCCTCCCAACACCTTCTTGACAT
 CTACCCACGGTACCAGCATTCCCATGAAGACAGAAAGGAGACTATTGAAATTAATCCAAGCGTGAGGTG
 ATGGATTTGCAGAGCTCGTCTCCCCCGTGGTGGATGTCTTTCTTTGATTCAACCACAATGACGGATT
 CCACCTATCGAGCTGTCCAGGCAAGGTTGAAGACATCTGTAGGATTTTCTTGAACCTTTGTAAATGCC
 AGAATGTTTCATCCACAACCTGTGAAAAAGAGACCAGAAGATGTAAGTGTGTCCTCCGAAAGCCTGAGG
 AGCGTCCCGCTGGCGGTGGCTGACGCACTGGAGCACATTATGAAACAACCTCAACATCCTAACCCAGACTG
 TTTCAATTCTGGAGCAGCGACTGTCTTTGACAGAAGATAAGCTGAGAGACTGCCTTGAGAATCAGCAAAA
 GCTTTTCAGCGCTGTCCAACAGAAGAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222485 representing NM_027740
 Red=Cloning site Green=Tags(s)

MASGLEDPILERSFKGHKAAITSADFSNCKQIATASWDTFLMLWSLKPHARAYRYVGHKDVVTSLQFSP
 QGNLLASASRDRTVRLWVLDKRGKSSEFKAHTAPVRSVDFSDAGQLLVASEDKSIKVVSMFRQRFYSL
 YRHTHWVRCAKFSPDGRLLIVSCSEDKTIKIWDTTNKQCVNNFSDSVGFANFVDFNPNGTCIASAGSDHAV
 KIWDIRMKNLLQHYQVHSCGVNCLSFHPLGNSLVTASSDGTVMKMLDLIEGRLLIYTLQGHGTPVFTVSFSK
 DGEELLTSGGADAQVLIWRTNFIHLHCKDPKRNLRKLFHFEASPHLLDIYPRSPHSHEDRKETIEINPKREV
 MDLQSSPPVVDVLSFDSTMTDSTYRAVPGKGEDICRYFLNPLLMPECSSTTVKKRPEDVSDVPSESLR
 SVPLAVADALEHIMEQLNILTQTVSILEQRLSLTEDKLRDCLNQKLFSAVQQKS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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

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]