

Product datasheet for **MG206365**

Poc1a (NM_027354) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Poc1a (NM_027354) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Poc1a
Synonyms:	2510040D07Rik; cha; Wdr51a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206365 representing NM_027354 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTCCCAGCCAGGAGGACCCCTCACTGGAGAGACATTTTAAGGGCCACCGAGATGCAGTCACCT
GTGTGGACTTCAGTCTCAACACCAAGCACTTGGCCAGTGGCTCCATGGACTCAACCCTCATGATCTGGCA
CATGAAGTCCCAGTCACGTGCCTACCGCTTACGGGCCACAAGGACGCTGTGACCTGTGTGAATTTCTCC
CCATCCGGACACCTTCTGCCTCAGGCTCCGAGACAAGACTGTCGCATCTGGGTACCCAATGTCAAAG
GTGAGTCAACTGTATTTCTGTCACACACGGCCACAGTGAGGAGTGTCCACTTCTGCAGCGATGGCCAGTC
ACTTGTGACAGCCTCTGATGACAAGACAGTCAAAGTGTGGTCAACTCATCGCCAGAGATTTCTGTTTTCC
CTGACCCAGCACATCAACTGGGTCCGCTGTGCCAAGTTCTCCCCTGACGGGCGGCTCATCGTGTCTGCCA
GTGATGACAAGACTGTCAAGCTGTGGGACAAGACCAGCCGGAATGTATCCACTCATACTGTGAGCACGG
CGGTTTTGTACCTACGTGGACTTCCACCCAGTGGTACCTGCATTGCTGCTGCCGGCATGGACAACACG
GTGAAGGTGTGGGATGCGCGGACTCATCGGCTGTTGCAGCATTATCAGTTACACAGTGCAGCCGTGAATG
CCCTCTCCTTCCACCCATCGGAAACTACCTCATCACAGCCTCCAGTGACTCAACGCTGAAGATCCTGGA
CCTGATGGAGGGCCGGCTGCTCTATACGCTCCATGGGCACCAGGGGCTGCTACCACCGTTGCCTTTTCA
AGAACGGGGGAGTATTTCTGCTTCTGGAGGCTCCGATGAGCAGGTGATGGTCTGGAAGAGTAACTTTGACA
TTGTTGATTATGGAGACATGAAGGCACGGAGGCCCCACCCCTAACCAAGCTCTTCTGGAACCTTGCCAAA
AATGGATTTCCTGTCCACAGGCAGAGACAGGAGTCTGGAGTCAGTTCAAGGCAGCCCCAGGAGTCC
ATCAGCATGCCTCAGACACTGACCAGCACCTGGAGCACATCGTGGGCCAGCTGGACATCCTCACGCAGA
CAGTGTCCATTCTGGAACAGCGACTGACACTAACAGAAGACAGGCTGAAGCAGTGCCTGGAGAACCAGCA
GTTAATCATGCAGAGAACGCCACCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206365 representing NM_027354
 Red=Cloning site Green=Tags(s)

MAAPSQEDPSLERHFKEGHRDAVTCVDFSLNTKHLASGSMSTLMIWHMKSQSRAYRFTGHKDAVTCVNFS
 PSGHLLASGSRDKTVRIWVPNVKGESTVFRHAHTATVRSVHFCSDGQSLVTASDDKTVKVVSTHRQFLFS
 LTQHINWVRCAKFSPDGRILIVSASDDKTVKLWDKTSRECIHSYCEHGGFVTYVDFHPSGTCIAAAGMDNT
 VKVWDARTHRLQHYQLHSAAVNALSFHPSGNYLITASSDSTLKILDLMGRLLYTLHGHQGPATTVAFS
 RTGEYFASGGSDEQVMVWKSNFIDVDYGDGMKARRPPPLTSSSGTLPKMDLPVPPGRDRSLESVQGEPPQES
 ISMPQTLTSTLEHIVGQLDILTQTVSILEQRLTLTEDRLKQCLNQQLIMQRTTP

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_027354

ORF Size: 1215 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_027354.1](#), [NP_081630.1](#)

RefSeq Size: 1372 bp

RefSeq ORF: 1218 bp

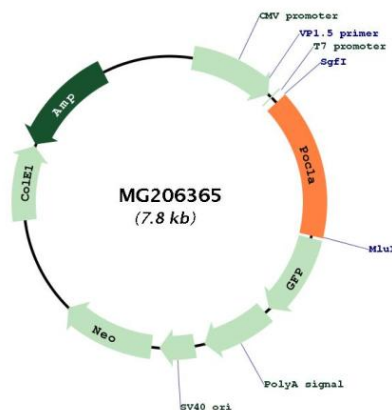
Locus ID: 70235

UniProt ID: [Q8JZX3](#)

Cytogenetics: 9 F1

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 POC1B to ensure centriole integrity and proper mitotic spindle formation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206365