

Product datasheet for **RG205470**

WDR51B (POC1B) (NM_172240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	WDR51B
Synonyms:	CORD20; PIX1; TUWD12; WDR51B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG205470 representing NM_172240
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCTCAGCCACGGAGGACCCCGTTCTGGAGCGTTATTTCAAAGGCCACAAAGCTGCGATCACCTCCT
 TGGACCTCAGCCCCAACGGCAAGCAACTTGCTACTGCTTCTTGGGATACCTTTCTCATGCTATGGAATTT
 CAAGCCACATGCTAGAGCTTACAGATATGTGGGTACAAAGGATGTTGTAACAGCGTGCAGTTTTCTCCA
 CATGGAACCTTATTGGCGTCTGCCTCAGGAGACAGAACCGTGAGACTCTGGATTCCTGATAAGAGAGGAA
 AATTCTCAGAATTTAAAGCTCATACAGTCCAGTTCGAAGTGAGACTTTTCAGCTGATGGCCAGTTTCT
 AGCTACAGCTTCTGAAGACAAATCCATAAAAGTATGGAGCATGTATCGCCAGCGCTTCTCTGATTCTTGG
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 GTCACCAGAATGTTTGCCAACAACCACGAAAAAGAAAACAGAAGACATGAGTGACCTCCCCTGTGAAAGT
 CAAAGGAGCATACCTCTCGCTGTGACTGATGCTTTAGAGCATATTATGGAACAACCAATGTTTTGACAC
 AGACTGTTTCAATCTTGAGCAGCGACTGACTTTGACAGAGGATAAGCTGAAAGACTGCCTTGAAATCA
 GCAAAAGCTTTTCAGTGTGTCCAACAGAAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

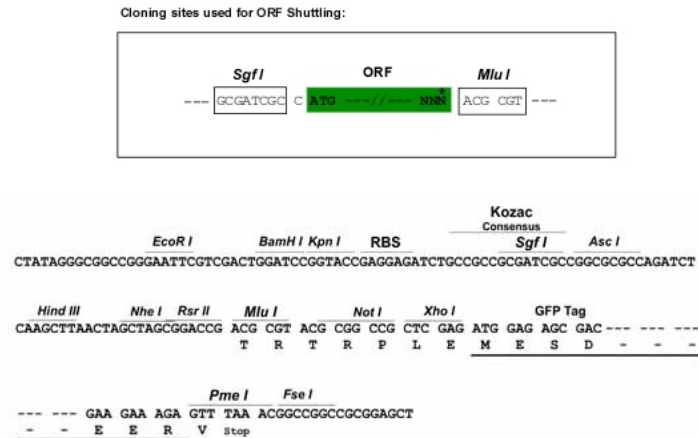
Protein Sequence: >RG205470 representing NM_172240
 Red=Cloning site Green=Tags(s)

MASATEDPVLERYFKGHKAAITSLDLSPNGKQLATASWDTFLMLWNFKPHARAYRYVGHKDVVTSVQFSP
 HGNLLASASRDRTVRLWIPDKRGKFSEFKAHTAPVRSVDFSADGQFLATASEDKSIKVMYRQRFYSL
 YRHTHWVRCAKFSPDGRLIVSCSEDKTIKIWDTTNKQCVNNFSDSVGFANFVDFNPSGTCIASAGSDQTV
 KVWDVRVNKLLQHYQVHSGGVNCSIFHPSGNYLITASSDGLKILDLLEGRLIYTLQGHGTGPVFTVSFSK
 GGELFASGGADTQVLLWRTNFDLHCKGLTKRNLKRLHFDSPPHLLDIYPRTPHPHEEKVETVEINPKLE
 VIDLQISTPPVMDILSFDSTTTTETSGRTLDPKGEEACGYFLNPSLMSPECLPTTTKKKTEDMSDLPCE
 QRSIPLAVTDALEHIMEQLNVLQTVSILEQRLTLTEDKLKDCLENQQLFSAVQQKS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_172240

ORF Size: 1434 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.

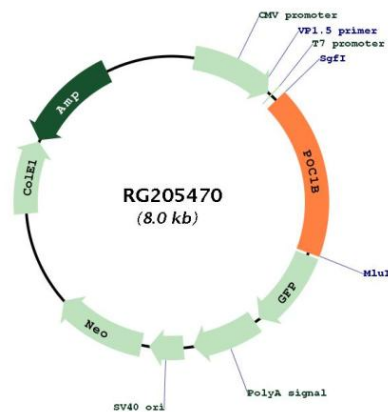
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_172240.3](#)

RefSeq Size: 2984 bp
RefSeq ORF: 1437 bp
Locus ID: 282809
UniProt ID: [Q8TC44](#)
Cytogenetics: 12q21.33

Gene Summary: POC1 proteins contain an N-terminal WD40 domain and a C-terminal coiled coil domain and are part of centrosomes. They play an important role in basal body and cilia formation. This gene encodes one of the two POC1 proteins found in humans. Mutation in this gene result in autosomal-recessive cone-rod dystrophy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RG205470