

Product datasheet for **RC205470**

WDR51B (POC1B) (NM_172240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR51B (POC1B) (NM_172240) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR51B
Synonyms:	CORD20; PIX1; TUWD12; WDR51B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205470 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCCTCAGCCACGGAGGACCCGTTCTGGAGCGTTATTTCAAAGGCCACAAAGCTGCGATCACCTCCT
 TGGACCTCAGCCCAACGGCAAGCAACTTGCTACTGCTTCTGGGATACCTTTCTCATGCTATGGAATTT
 CAAGCCACATGCTAGAGCTTACAGATATGTGGGTACAAGGATGTTGTAACCAGCGTGCAGTTTTCTCCA
 CATGGAACCTTATTGGCGTCTGCCTCACGAGACAGAACCCTGAGACTCTGGATTCCTGATAAGAGAGGAA
 AATTCTCAGAATTTAAAGCTCATACAGCTCCAGTTCGAAGTGTAGACTTTTCAGCTGATGGCCAGTTTCT
 AGCTACAGCTTCTGAAGACAAATCCATAAAAGTATGGAGCATGTATCGCCAGCGCTTCTGTATTCCTTG
 TATCGACATACACTGGGTACGCTGTGCCAAATTTTACCCGATGGAAGACTAATTGTGCATGTAGTG
 AGGATAAACTATTAATTTGGGATACCACAAATAAGCAATGTGTTAATAACTTCTCAGATTCCGTTGG
 ATTTGCAAATTTGTGGACTTTAACCTAGTGGTACATGCATAGCTTCAGCAGGTTCTGATCAAACCTGTG
 AAAGTCTGGGATGTAAGAGTGAACAAATTACTACAGCATTACCAAGTTCACAGCGGTGGAGTTAATTGCA
 TATCATTCATCCTTCGGGTAACATCTCATCACAGCTTCTTCAGATGGTACCCTTAAGATTCTGGACCT
 CTTAGAAGGAAGGCTCATCTATACACTTCAAGGACATACGGGACCTGTCTTTACTGTTTCATTTTCAAAA
 GGTGGAGAGCTATTTGCATCAGGAGGTGCAGACACACAGGTCTTATTATGGAGGACTAAGTTTGTGAAT
 TGCATTGTAAAGTCTTACCAAAAGAAATCTCAAAAGATTACATTTTGATTACCAACCATCTTCTTGA
 TATCTACCAAGAACACCATCCCCATGAGGAAAAAGTTGAGACTGTAGAAATTAATCCAAAGCTTGAG
 GTAATCGATTTCAGATCTCTACTCCCCTGTTATGGATATCCTTTCTTTGATTCTACCACAACAACAG
 AAACCAAGTGGTAGGACTCTGCCAGACAAGGTGAAGAGGCTGTGGATATTTCTGAACCTTCTCTTAAT
 GTCACCAGAATGTTTGCCAACAACACGAAAAAGAAAACAGAAGACATGAGTGACCTCCCCTGTGAAAGT
 CAAAGGAGCATACCTCTCGCTGTGACTGATGCTTTAGAGCATATTATGGAACAACTCAATGTTTTGACAC
 AGACTGTTTCAATCTTGAGCAGCGACTGACTTTGACAGAGGATAAGCTGAAAGACTGCCTTGAAAAATCA
 GCAAAAGCTTTTCAGTGTGTCCAACAGAAAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205470 protein sequence
 Red=Cloning site Green=Tags(s)

MASATEDPVLERYFKGHKAAITSLDLPNGKQLATASWDTFLMLWNFKPHARAYRYVGHKDVVTSVQFSP
 HGNLLASASRDRTVRLWIPDKRGKFSEFKAHTAPVRSVDF SADGQFLATASEDKSIKVMYSRQRFLYSL
 YRHTHWVRCAKFS PDGRLIVSCSEDKTIKIWDTTNKQCVNNFSDSVGFANFVDFNPSGTCIASAGSDQTV
 KVWDVVRVNLKLLQHYQVHSGGVNCISFHPSGNYLITASSDGLKILDLEGRLLIYTLQGHTGPVFTVSFSK
 GGELFASGGADTQVLLWRTNFDLHCKGLTKRNLKRLHFDSPPHLLDIYPRTPHPHEEKVETVEINPKLE
 VIDLQISTPPVMDILSFDSTTTTETSGRTL PDKGEEACGYFLNPSLMSPECLPTTTKKKTEDMSDLPCE
 QRSIPLAVTDALEHIMEQLNVL TQTVSILEQRL TLTEDKLDCLNQQLFSAVQQKS

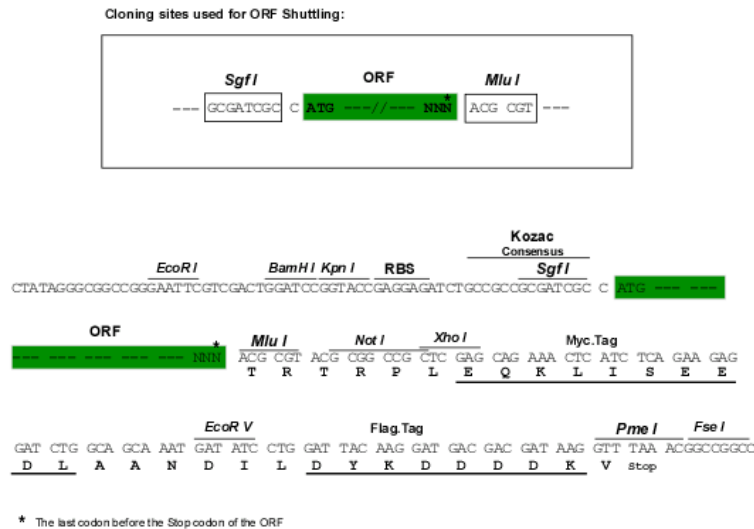
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6315_a01.zip

Restriction Sites:

SgfI-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: 3251 bp

RefSeq ORF: 1437 bp

Locus ID: 282809

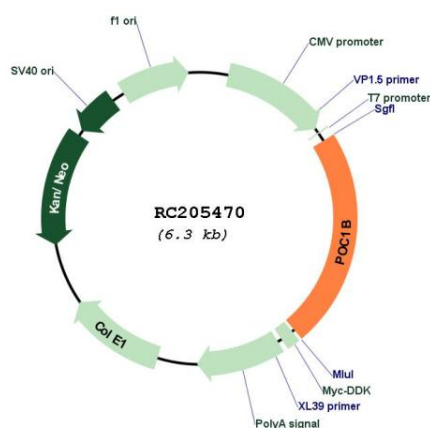
UniProt ID: [Q8TC44](#)

Cytogenetics: 12q21.33

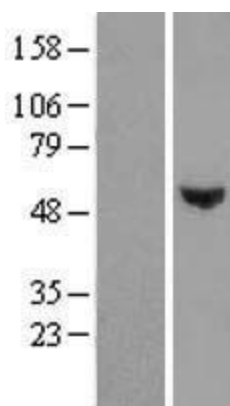
MW: 53.7 kDa

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]

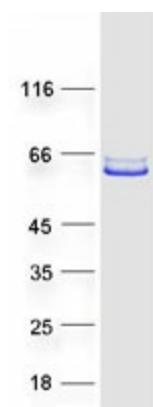
Product images:



Circular map for RC205470



Western blot validation of overexpression lysate (Cat# [LY406759]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205470 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POC1B protein (Cat# [TP305470]). The protein was produced from HEK293T cells transfected with POC1B cDNA clone (Cat# RC205470) using MegaTran 2.0 (Cat# [TT210002]).