

Product datasheet for **SC100729**

WDR51B (POC1B) (NM_172240) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | WDR51B (POC1B) (NM_172240) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | WDR51B |
| Synonyms: | CORD20; PIX1; TUWD12; WDR51B |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_172240, the custom clone sequence may differ by one or more nucleotides |

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ATGGCCTCAGCCACGGAGGACCCGTTCTGGAGCGTTATTTCAAAGGCCACAAAGCTGCGATCACCTCCT
TGGACCTCAGCCCAACGGCAAGCAACTTGCTACTGCTTCTGGGATACCTTTCTCATGCTATGGAATTT
CAAGCCACATGCTAGAGCTTACAGATATGTGGGTACAAGGATGTTGTAACCAGCGTGCAGTTTTCTCCA
CATGGAACCTTATTGGCGTCTGCCTCACGAGACAGAACCCTGAGACTCTGGATTCCTGATAAGAGAGGAA
AATTCTCAGAATTTAAAGCTCATACAGCTCCAGTTCGAAGGTAGACTTTTCAGCTGATGGCCAGTTTCT
AGCTACAGCTTCTGAAGACAAATCCATAAAAGTATGGAGCATGTATCGCCAGCGCTTCTGTATTCCTTG
TATCGACATACACACTGGGTACGCTGTGCCAAATTTTCACCCGATGGAAGACTAATTGTGTCATGTAGTG
AGGATAAAACTATTTAAATTTGGGATACCACAAATAAGCAATGTGTTAATAACTTCTCAGATTCGGTTGG
ATTTGCAAATTTTGGGACTTTAACCTAGTGGTACATGCATAGCTTCAGCAGGTTCTGATCAAACCTGTG
AAAGTCTGGGATGTAAGAGTGAACAAATTAACACAGCATTACCAAGTTCACAGCGGTGGAGTTAATTGCA
TATCATTCCATCCTTCGGGTAACATCTCATCACAGCTTCTTCAGATGGTACCCTTAAGATTCTGGACCT
CTTAGAAGGAAGGCTCATCTATACACTTCAAGGACATACGGGACCTGTCTTTACTGTTTCATTTTCAAAA
GGTGGAGAGCTATTTGCATCAGGAGGTGCAGACACACAGGTCTTATTATGGAGGACTAATTTGATGAAT
TGCATTGTAAGGTCTTACCAAAAAGAAATCTCAAAAGATTACATTTTGATTACACCACCACATCTTCTGA
TATCTACCAAGAACACCACATCCCCATGAGGAAAAAGTTGAGACTGTAGAAATTAATCCAAGCTTGAG
GTAATCGATTTGCAGATCTCTACTCCCCCTGTTATGGATATCCTTTCTTTTGTATTACCACAACAACAG
AAACCAGTGGTAGGACTCTGCCAGACAAGGTTGAAGAGGCTGTGGATATTTCTTGAACCTTCCCTAAT
GTCACCAGAATGTTTGCCAACAACCACGAAAAAGAAAACAGAAGACATGAGTGACCTCCCCTGTGAAAGT
CAAAGGAGCATACCTCTCGCTGTGACTGATGCTTTAGAGCATATTATGGAACAACCAATGTTTTGACAC
AGACTGTTTCAATCTTGGAGCAGCGACTGACTTTGACAGAGGATAAGCTGAAAGACTGCCTTGAAAATCA
GCAAAAGCTTTTCAGTGCTGTCCAACAGAAAAGCTGA
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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_172240 unedited TCACTCTAGGGGCGNNGCCGCAATTCGGCACGAAGGCCGCTCTGGGCAGACGGTTCCGG GAGCCGCACGGTCCCCTCTCCTTCCCCATCCTCTCCCCTCCCCTCTCCGGTTCCCCAC CCACAGGAGCCTTGGGCCGACCACTCCCCGATGGCCTCAGCCACGGAGGACCCCGTTCT GGAGCGTTATTTCAAAGGCCACAAAGCTGCGATCACCTCCTTGGACCTCAGCCCCAACGG CAAGCAACTTGTACTGCTTCTTAGGAGATACCTTCTCATGCTATGGAATTTTCAGCCA CATGCTAGAGCTTACAGATTGTGGGTACAGGGAATGTGTACCAGCGTGAAGTTTCTTC ACATGGAAACTTATTGGCGTCTGGCTCACGAGACAGACCGTGAGACTCTGGATTCTGAT AAGAGAGGAANATCTCAGAATTAAGCTATACAGCTCGTCCGAAATGAAAACCTTCACTG ATGGCAGTTCTAGCTACGCTTCTGAGACAATCTTANAGTTGGAACATGATCGCAGGCTTC TGTATTCTTGATCGACTCCACTGGAACACTCTTGCCAATTTACCGATGGAACATAATGTG CATGTANGGAGATANACATTAATTTGGGATCCACAATAGCATGTGTATACTTCTANATN NCGTGGATTGAAATTTGGGGACTTACCCTATGTACTGATATNACCAGGTCTATAATTG GAAGCTGGGGTTGAAAATGACAATACTCGCTTACAGTCCAGGNNNGAATAATGCAATA TCATCCTTGGGACATTATACACTCTTAAATGACCTTAAATTGACCTAA |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_172240 |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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: | <ol style="list-style-type: none"> 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: | <u>NM_172240.1</u> , <u>NP_758440.1</u> |
| RefSeq Size: | 2984 bp |
| RefSeq ORF: | 1437 bp |
| Locus ID: | 282809 |
| UniProt ID: | <u>Q8TC44</u> |
| 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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a).