

Product datasheet for **SC306372**

WDR81 (NM_152348) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR81 (NM_152348) Human Untagged Clone
Tag:	Tag Free
Symbol:	WDR81
Synonyms:	CAMRQ2; HYC3; PPP1R166; SORF-2
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_152348, the custom clone sequence may differ by one or more nucleotides

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ATGGATGGGGAGCCTCCTGCCTCCTCGGGCCTGGGGCTCCCAGACTACACGTCTGGCGTC
AGCTTCCACGACCAGGCTGACCTCCCTGAGACAGAGGACTTCCAAGCCGGGCTCTATGTG
ACTGAGTCTCCCCAGCCCCAGGAGGCTGAGGCTGTGAGCCTGGGCCGGCTGAGTGACAAG
AGCAGCACCAGCGAGACCTCCCTGGGTGAGGAGCGGGCTCCAGACGAGGGGGGTGCCCC
GTGGACAAGAGCAGCCTTCGATCAGGTGACAGCAGCCAGGACTTGAAGCAAAGCGAGGGC
TCCGAGGAGGAAGAGGAGGAGGAGGACAGCTGCGTGGTGCTAGAGGAGGAGGAGGGGAG
CAGGAGGAGGTACCGGGGCATCTGAGCTCACTCTGTCTGACACGGTGCTGTCCATGGAG
ACGGTTGTGGCCGGCGCAGTGGGGGAGATGGAGAAGAAGAGGAGGAGGCACTGCCTGAG
CAGTCAGAAGGCAAGAACAAGAAGATCCTCTTGATACAGCCTGCAAGATGGTCCGCTGG
CTGTCTGCCAAGCTCGGCCCCACAGTGGCCTCTCGCCACGTGGCCCGGAACCTGCTCCGC
CTGCTGACGTCTTGTTATGTTGGACCCACTCGGCAGCAGTTCACAGTGAGCAGTGGCGAG
AGCCCCACGCTGAGCGCCGGCAACATCTACCAGAAGAGGCCGGTCTGGGCGACATCGTG
TCAGGGCCTGTGCTCAGCTGCCTCCTCCACATCGCCCGCTGTATGGGGAGCCTGTCCTC
ACCTACAGTACCTGCCCCACATCAGCTACCTGGTGGCCCCAGGAGTGCTCAGCCCCC
AGCCGACTGAACAGCCGTAAGGAGGCGGGGCTGCTGGCCGCGGTGACGCTGACTCAGAAG
ATCATCGTGACCTCTCAGACACCACACTCATGGACATCCTGCCCCGGATCAGCCATGAG
GTCCTGCTGCCCGTGCTCAGCTTCTCACCTCCCTCGTCACGGGGTTCCCAAGTGGGGCC
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TTCTCTCAGCTGCATGAGCTTCGCAACAGGATCTGAAGCTGGACCCTGCGGGCCGTGGT
GAGGGCCAGCTGCCACAGGTGGTCTTCTCTGATGGGCAGCAGCGCCCGTGGACCCCGC
CTGCTGGACGAGCTGCAGAAGGTGTTACCCCTGGAGATGGCATACACAATCTACGTGCC
TTCTCCTGCCTGTTGGGTGACATCATCCGAAAATCATCCCCAACACGAGCTGGTTGGG
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GAGCCCACCATGCCCGGCACCGGGCCGAGTGGGACCCCATGGTGGGGGCTGCCCTCAG
GATGACGGCCACTCAGGGACCTTTGGGAGCGTCTGGTGGGGAACCGCATTGAGTCCCC
AATGACTCTCGGCTGAGAACCCCGGACCACTGGGCCCCATCTCGGGGTGGGTGGCGGG
GGCCTGGGCAGCGGGAGCGACGACAACGCCCTGAAGCAGGAGTGC CGCGGAGCGTGCAC
GGGCTGAGCGGAACTGGCTGGCGTACTGGCAGTACGAGATCGGCGTGAGCCAGCAGGAT
GCCCACTTTCACCTCCACAGATCCGCCTGCAGAGCTTCCCGGGCCACTCGGGGGCCGTC
AAGTGCCTGGCACCCCTAAGCAGCGAGGACTTCTTCTGAGCGGCAGCAAGGATCGTACC
GTGCGCCTCTGGCCGCTGTAACTACGGCGACGGGACCAGCGAGACGGCCCCACGCCTC
GTCTACACCCAGCACCGCAAGAGCGTCTTCTCGTGGGCCAGCTTGAGGCCCCGAGCAC
GTGGTGAGCTGTGACGGGGCTGTGACGCTCTGGGACCCCTTACAGGGAAGACCTTCGC
ACAGTGGAGCCGCTGGACAGCCGGGTGCCCTGACTGCGGTGGCTGTGATGCCCGCCCC
CACACCAGCATCACCATGGCCAGCTCTGACTCTACCCTGCGCTTTGTGGACTGCAGGAAG
CCTGGTCTGCAGCAGAGTTCCGACTGGCGGTGGGCTGAACCTGGGCTTGTCCTGCGC
CTGGCCATCAGCCCCAGTGGCCGTAGTGTGCTGGCCGGCTTCTCCTCAGGCTTCATGGTG
CTCCTGGACACCCGACAGGCCTGGTTCTGCGAGGCTGGCCAGCCACGAGGGGGACATT
CTGCAGATCAAGGCGGTGGAGGGCAGCGTCTGGTCAGCTCCTCCTCTGACCATTCCTTG
ACCGTCTGGAAGGAGCTGGAGCAGAAGCCACCCATCACTACAAGTCAGCATCCGACCCC
ATCCACACCTTTGACCTGTACGGCAGCGAGGTGGTCACTGGCACCGTGTCCAACAAGATT
GGCGTCTGCTCCTGCTTGAGCCACCCTCGCAGGCCACCACGAAGCTCAGCTCTGAGAAC
TTCCGCGGCACGCTCACCAGCCTGGCCTTGCTGCCCACTAAACGCCACCTCCTGCTGGG
TCAGACAACGGGTTATCCGCCTCCTGGCATAG

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Restriction Sites: Please inquire

ACCN: NM_152348

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

RefSeq: [NM_152348.1](#), [NP_689561.1](#)

RefSeq Size: 3789 bp

RefSeq ORF: 2673 bp

Locus ID: 124997

UniProt ID: [Q562E7](#)

Cytogenetics: 17p13.3

Gene Summary: This gene encodes a multi-domain transmembrane protein which is predominantly expressed in the brain and is thought to play a role in endolysosomal trafficking. Mutations in this gene are associated with an autosomal recessive form of a syndrome exhibiting cerebellar ataxia, cognitive disability, and disequilibrium (CAMRQ2). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2017]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.