

Product datasheet for **SC327336**

WDR81 (NM_001163809) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR81 (NM_001163809) Human Untagged Clone
Tag:	Tag Free
Symbol:	WDR81
Synonyms:	CAMRQ2; HYC3; PPP1R166; SORF-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC327336 representing NM_001163809. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GTGAACCGTCAGAAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTA
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CCCGACATGCCTGACCTGGATGTGCCAGCCTGGTGCAGCTCCAGCCAGGAGTTTCGTAGCTGCCACCGA
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TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
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Restriction Sites: Ascl-MluI

ACCN: NM_001163809

Insert Size: 5826 bp

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_001163809.1](#)

RefSeq Size: 6869 bp

RefSeq ORF: 5826 bp

Locus ID: 124997

UniProt ID: [Q562E7](#)

Cytogenetics: 17p13.3

MW: 211.7 kDa

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 (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. The 5' coding exon is inferred based on available transcript data and further supported by similar exon-intron structure of the related mouse gene, GeneID 192652.