

Product datasheet for **RG228566**

WDR81 (NM_001163673) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR81 (NM_001163673) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WDR81
Synonyms:	CAMRQ2; HYC3; PPP1R166; SORF-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG228566 representing NM_001163673
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGGTCCGTGATGTTCTCAGCCTGACACCGTCGTTCCAGAACCAGCGCGCTCTATACAGCCTGCA
 AGATGGTCCGCTGGCTGTCTGCCAAGCTCGGCCCCACAGTGGCCTCTCGCCACGTGGCCCCGAACCTGCT
 CCGCCTGCTGACGTCTTGTATGTTGGACCCACTCGGCAGCAGTTCACAGTGAGCAGTGGCGAGAGCCCA
 CCGCTGAGCGCCGGAACATCTACCAGAAGAGCGCGTCTGGGCGACATCGTGTAGGGCCTGTGCTCA
 GCTGCCTCTCCACATCGCCGCCTGTATGGGAGCCTGTCTCACCTACCAGTACCTGCCTACATCAG
 CTACCTGGTGGCCCCAGGGAGTGCCTCAGGCCCCAGCCGACTGAACAGCCGTAAAGAGGCGGGGCTGCTG
 GCCCGGTGACGCTGACTCAGAAGATCATCGTGTACCTCTCAGACACCACACTCATGGACATCTGCCCC
 GGATCAGCCATGAGGTCCTGCTGCCCGTCTCAGCTTCTCACCTCCCTCGTCACGGGGTCCCAAGTGG
 GGCCAGGCTCGGACCATCTGTGTGTGAAAACCATCAGCCTCATCGCCCTCATCTGCCTGCGCATTGGA
 CAGGAGATGGTCCAGCAGCACCTGAGCGAGCCGTGGCCACCTTTTCCAGGTCTTCTCTCAGCTGCATG
 AGCTTCGGAACAGGATCTGAAGCTGGACCTGCGGGCCGTGGTGAAGGCCAGCTGCCACAGGTGGTCTT
 CTCTGATGGGCGAGCGGCCCGTGGACCCCGCCTGCTGGACGAGCTGCAGAAGGTGTTACCCCTGGAG
 ATGGCATAACAATCTACGTGCCCTTCTCTGCTGTTGGGTGACATCATCCGAAAATCATCCCCAACCC
 ACGAGCTGGTGGGAGCTGGCGGCGTGTACTTGGAGAGCATCAGCCCCAGCAGTCGAACCCCTGCCAG
 CGTGGAGCCACCATGCCCGGACCGGGCCGAGTGGGACCCCATGGTGGGGGCTGCCCTCAGGATGAC
 GGCCACTCAGGGACCTTTGGGAGCGTCTGGTGGGAACCGCATTAGATCCCCAATGACTCTCGGCCTG
 AGAACCCCGGACCACTGGGCCCCATCTCGGGGTGGGTGGCGGGGCTGGGAGCGGGAGCGACGACAA
 CGCCCTGAAGCAGGAGCTGCCCGGAGCGTGCACGGGCTGAGCGGAAACTGGCTGGCGTACTGGCAGTAC
 GAGATCGGCGTGAGCCAGCAGGATGCCCACTTTCACTTCCACCAGATCCGCTGCAGAGCTTCCCGGCC
 ACTCGGGGCGCTCAAGTGCCTGGCACCCCTAAGCAGCGAGGACTTCTTCTGAGCGGCAGCAAGGATCG
 TACCGTGCCTCTGGCCGCTGTACAACACGGCGACGGGACAGCGAGACGGCCCCACGCCTCGTCTAC
 ACCCAGCACCGCAAGAGCGTCTTCTTGTGGGCCAGCTTGAAGCCCCGAGCAGTGGTGAAGCTGTGACG
 GGGCTGTGCACGTCTGGGACCCCTTACAGGGAAGACCCTTCGCACAGTGGAGCCGCTGGACAGCCGGT
 GCCCTGACTGCGGTGGCTGTATGCCCGCCCCCACACCAGCATCACCATGGCCAGCTCTGACTCTACC
 CTGCGCTTTGTGACTGCAGGAAGCCTGGTCTGCAGCAGAGTTCGACTGGGCGGTGGCTGAACCTG
 GGCTTGTCCGTGCCCTGGCCATCAGCCCCAGTGGCCGTAGTGTCTGGCCGGCTTCTCTCAGGCTTCAT
 GGTGCTCTGGACACCCGCACAGGCCTGGTCTGCGAGGCTGGCCAGCCACGAGGGGACATTCTGCAG
 ATCAAGGCGGTGGAGGGCAGCGTCTGGTCAGCTCCTCTCTGACCATTCTTGACCGTCTGGAAGGAGC
 TGGAGCAGAAGCCACCCATCACTACAAGTCAGCATCCGACCCCATCCACACCTTTGACCTGTACGGCAG
 CGAGGTGGTCACTGGCACCGTGTCCAACAAGATTGGCGTCTGCTCCCTGCTTGAGCCACCTCGCAGGCC
 ACCACGAAGCTCAGCTCTGAGAACTCCGCGGCACGCTCACCAGCCTGGCCTTGTGCCCACTAACGCC
 ACCTCTGCTGGGCTCAGACAACGGGTTATCCGCTCCTGGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228566 representing NM_001163673
 Red=Cloning site Green=Tags(s)

MLVRVLSLTPSFPEPSALYTACKMVRWLSAKLGPTVASRHHARNLLRLLTSCYVGPTRQQFTVSSGES
 PLSAGNIYQKRPVLGDIVSGPVLSCLLHIALRYGEPVLTYYLPYISYL VAPGSASGPSRLNSRKEAGLL
 AAVTLTQKIIVYLSDTTMDILPRISHEVLLPVLSFLTSLVTGFPSSGAQARTILCVKTIISIALICLRIG
 QEMVQQHLSEPVATFFQVFSQLHELQQDLKLDPAAGRGEGQLPQVVFSDGQQRVPDALLDELQKVFTLE
 MAYTIYVPFSCLLDGIIRKIIIPNHELVGELAALYLEISIPSSRNPAVEPTMPGTGPEWDPHGGGCPQDD
 GHSGTFGSVLVGNRIQIPNDSRPENPGPLGPISGVGGGGLSGSDDNALKQELPRSVHGLSGNWLAYWQY
 EIGVSQQDAHFHFHQIRLQSFPGHSGAVKCVAPLSSDDFFLSGSKDRTVRLWPLYNYGDTSETAPRLVY
 TQHRKSVFFVQGLEAPQHVVSCDGAVHVDWPFGTGLRTVEPLDSRVPLTAVAVMPAPHTSITMASSDST
 LRFVDCRKPGLQHEFRLGGGLNPLVRLAISPGRSVVAGFSSGFMVLLDTRTGLVLRGWAHEGDILQ
 IKAVEGSLVSSSDHSLTVWKELEQKPTHHYKSASDPIHTFDLYGSEVVTGTVSNKIGVCSLLEPPSQA
 TTKLSSFNFRGLTSLALLPTKRHLLLGSDNGVIRLLA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163673

ORF Size: 2214 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.

RefSeq: [NM_001163673.1](#), [NP_001157145.1](#)

RefSeq Size: 3184 bp

RefSeq ORF: 2217 bp

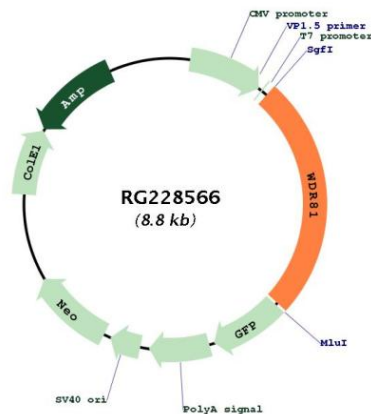
Locus ID: 124997

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]

Product images:



Circular map for RG228566