

Product datasheet for **RC228566**

WDR81 (NM_001163673) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR81 (NM_001163673) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR81
Synonyms:	CAMRQ2; HYC3; PPP1R166; SORF-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC228566 representing NM_001163673
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCTGGTCCGTGATGTTCTCAGCCTGACACCGTCGTTCCAGAACCAGCGCGCTCTATACAGCCTGCA
 AGATGGTCCGCTGGCTGTCTGCCAAGCTCGGCCCCACAGTGGCCTCTCGCCACGTGGCCCGAACCTGCT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC228566 representing NM_001163673
 Red=Cloning site Green=Tags(s)

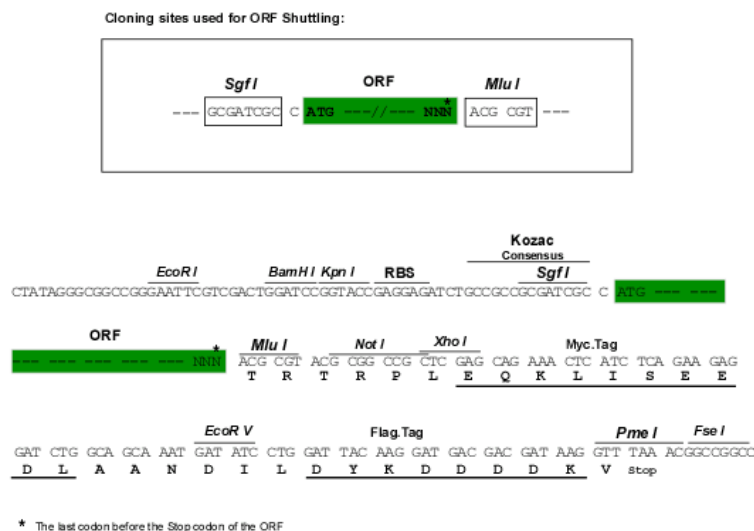
MLVRVVLSTPSFPEPSALYTACKMVRWLSAKLGPTVASRHHARNLLRLLTSCYVGPTRQQFTVSSGESPP
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 AAVTLTQKIIVYLSDTTMDILPRISHEVLLPVL SFLTSLVTGFPSGAQARTILCVKTI SLIALICLRIG
 QEMVQQHLSEPVATFFQVFSQLHEL RQQDLKDPAGRGEGQLPQVVFSDGQQRVPD PALDELQKVFTLE
 MAYTIYVPFSCLLDIIRKIIIPNHEL VGELAALYLESISPSSRNPA SVEPTMPGTGPEWDPHGGGCPQDD
 GHSGTFGSVLVGNRIQIPNDSRPENPGPLGPI SGVGGGGLSGSDDNALKQELPRSVHGLSGNWLAYWQY
 EIGVSQQDAHFHFHQIRLQSFPGHSGAVKCVAPLSSDDFFLSGSKDRTVRLWPLYNYGDTSETAPRLVY
 TQHRKSVFFVGQLEAPQHVVSCDGAVHVWDPFTGKTLRTVEPLDSRVPLTAVAVMPAPHTSITMASSDST
 LRFVDCRKPLQHEFRLGGGLNPLVRLAISP SGRSVVAGFSSGFMVLLDTRTGLVLRGWAHEGDILQ
 IKAVEGSLVSSSSDHS LTVWKELEQKPTHHYKSASDPIHTFDLYGSEVVTGTVSNKIGVCSLLEPPSQA
 TTKLSSENFRGTLTSLALLPTKRHLLLGSDNGVIRLLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001163673.1, NP_001157145.1

RefSeq ORF: 2217 bp

Locus ID: 124997

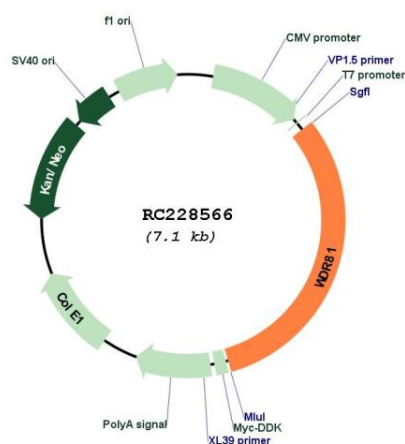
UniProt ID: Q562E7

Cytogenetics: 17p13.3

MW: 79.6 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]

Product images:



Circular map for RC228566