

Product datasheet for **RC229987**

WDR13 (NM_001166426) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	WDR13
Synonyms:	MG21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC229987 representing NM_001166426
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGACTTTGAGGATGATCCTCGGGCCCTGGGGGCCCTGGGCACCGTCGTTCTGTCAGCAGAGGCT
CCTACCAAGCTGCAGGCGCAGATGAACCGTGCCGTCTATGAGGACAGGCCCCCTGGCAGCGTGGTGCCAC
GTCAGCAGCAGAGGCAAGTCGGGCCATGGCCGGGACACGTCAGCAGGAGAACTATGCCTTTGCGGGC
ATGTATCATGTTTTGACCAGCAGTGATGAGGCAGTCCCAAGGTGCGCTTCGCAATGATGACCGAC
ACCGCTGGCCTGCTGCTCACTCGACGGCAGCATCTCCCTGTGCCAGCTGGTGCCTGCCCAACCCACAGT
GCTTCGCGTGTACGGGGCCACACCGTGGTGTCTCCGACTTCGCTGGTCCCTCTCCAATGACATCCTC
GTGTCCACCTCACTGGATGCCACCATGCGCATCTGGGCCTCTGAGGATGGTGCCTGCATCCGAGAGATCC
CTGACCCCGATAGCGCTGAATGCTCTGCTGCACCTTCAGCCTGTCAACAACAACCTCACTGTGGTGGG
GAACGCCAAGCACAACGTGCATGTCATGAACATCTCCACAGGCAAGAAAGTGAAGGGGGGCTCCAGCAAG
CTGACAGGCGGTGCTTGTCTGTCTTTGATGCCCTGGCCGGTGTCTGGGCGGGTGTGACCGGTG
GCAGTGTCTTCTCTTCTCTTTGATATGGCCACAGGGAAGCTGACCAAGCCAAGCGTTTGGTGGTGCA
TGAGGGGAGCCCTGTGACCAGCATCTCAGCCCGGTCTGGGTGAGCCGAGGCGCGGGATCCCTCACTG
CTCATCAATGCTTGCCTCAACAAGTTGCTGCTCTACAGGGTGGTAGACAACGAGGGGACCCCTGCAGCTGA
AGAGAAGCTTCCCATCGAGCAGAGCTCACATCCTGTGCGCAGCATCTTCTGTCCCCTCATGTCTTCCG
CCAGGGGGCCTGCGTGGTGACGGGCAGTGAGGACATGTGCGTGCATCTTTGATGTGGAGCGGGCGGCC
AAGGCTGCTGTCAACAAGCTGCAGGGCCACAGTGCACCTGTGCTTGTGATGTCAGCTTCAACTGCGACGAGA
GCCTACTGGCTCCAGTGACGCCAGCGCATGGTCATCGTCTGAGGCGGGAGCAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC229987 representing NM_001166426

Red=Cloning site Green=Tags(s)

MEDFEDDPRALGARGHRRSVSRGSYQLQAQMNRAVYEDRPPGSVVPTSAAEASRAMAGDTSLENYAFAG
MYHVFQHVDEAVPRVRFANDDRHLACCSLDGSI SL CQLVPAPPTVLRVLRGHTRGVSDFAWSLSNDIL
VSTSLDATMRIWASEDGRCIREIPDPDSAELLCTFQPVNNNLTVVGNKHNHVMNISTGKKVKGSSK
LTGRVLALSFDAPGRLLWAGDDRGSVFSFLFDMATGKLTAKRLVVEGSPVTSISARSWVSREARDPSL
LINACLNKL LLYRVVDNEGTLQLKRSFPIEQSSHPVRSIFCPLMSFRQGACVVTGSEDMCVHFFDVERAA
KAAVNKLQGHSA PVL DVSFNCD E SLLASSDASGMVIVWREQK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

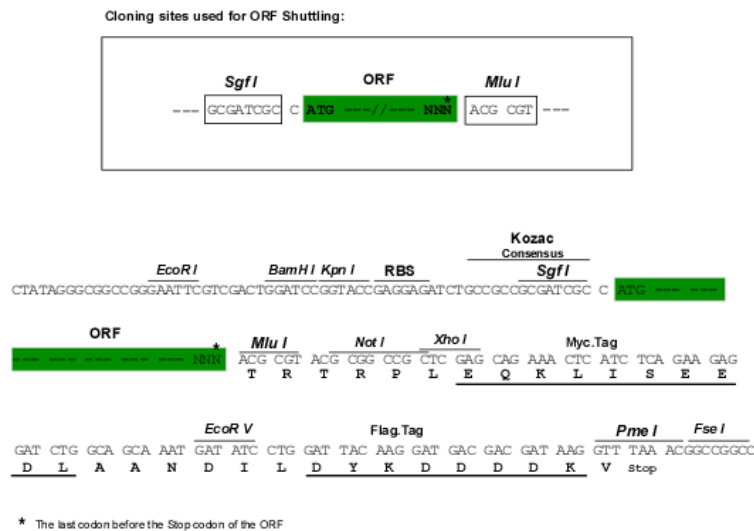
Chromatograms:

https://cdn.origene.com/chromatograms/mk8056_g01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001166426

ORF Size:

1179 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:

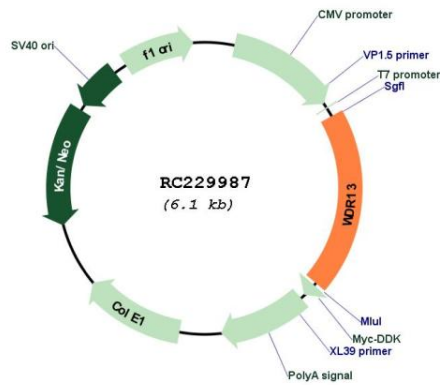
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

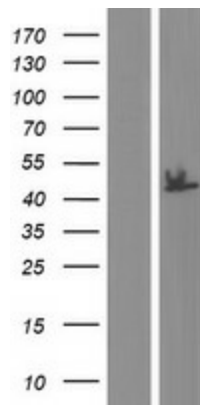
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001166426.3</u>
RefSeq ORF:	1182 bp
Locus ID:	64743
UniProt ID:	<u>Q9H1Z4</u>
Cytogenetics:	Xp11.23
MW:	43.5 kDa
Gene Summary:	This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by Gly-His and Trp-Asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. A similar protein in mouse is thought to be a negative regulator of the pancreatic beta cell proliferation. Mice lacking this gene exhibit increased pancreatic islet mass and higher serum insulin levels, and are mildly obese. [provided by RefSeq, Nov 2016]

Product images:



Circular map for RC229987



Western blot validation of overexpression lysate (Cat# [LY432987]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229987 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).