

Product datasheet for **RC202931**

WDR4 (NM_018669) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR4 (NM_018669) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR4
Synonyms:	GAMOS6; hWH; MIGSB; TRM82; TRMT82; Wuho
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202931 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGCTCTGTGGGACTGGCGTTGTGCGGGCAGACGTTGGTGGTGCGGGGCGGCAGCCGATTCTGG
CCACCTCCATAGCAAGCAGTGATGATGACAGCCTTTCATCTATGACTGCAGTGCAGAAAAGAAGTC
ACAAGAAAATAAAGGGGAGGACGCGCCCTTGACCAGGGGAGCGGTGCGATTCTGGCGTCCACCTTCTCC
AAGTCTGGCAGCTATTTTGCTTTAACCGATGACAGTAAGCGTCTGATTCTTTCCGTACAAAACCATGGC
AATGCTGAGTGTGAGGACCGTGGCAAGGAGGTGTACAGCCCTGACTTTCATAGCCTCGGAGGAGAAGGT
CTTGGTGGCCGACAAGTCTGGAGACGTCTACTCCTTTTCGGTGTGGAGCCACACGGGTGTGGCCGTCTA
GAGCTGGGACACCTGTCTATGCTGTTAGATGTGGCTGTGAGTCCTGATGACCGCTTCATCCTCACTGCCG
ACCGGGACGAGAAGATCCGAGTCAGCTGGGCGCGGCCGCCCATAGCATCGAGTCCTTCTGCTTGGGGCA
CACAGAGTTTGTGAGCCGTATCTCCGTGGTGCCTCACTGAGCCCGGGCTGCTTCTGTCTCCTCTGGGGAC
GGCACCCTGAGGCTCTGGGAGTACAGGAGCGGCCAGCTGCACTGCTGTACCTGGCCAGTCTGCAGG
AGCTGGTGGACCCCGAGCCCGCCAGAAGTTTGGCGCTCCAGGATTGCATTCTGGTGGCAGGAGAACTG
CGTGGCGCTCCTGTGCGACGGCACTCCTGTGGTCTACATCTTCCAGCTGGACGCCCGAGACAGCAGTTG
GTGTACAGGCAGCAGCTGGCGTTCCAGCACCAAGTGTGGGACGTGGCTTTCGAGGAGACCCAGGGGCTGT
GGGTGCTCCAGGACTGCCAGGAAGCCCGCTGGTGTCTACAGGCCTGTGGGCGACAGTGGCAGTCTGT
TCCTGAGAGCACCGTGTAAAGAAAGTCTCTGGTGTCTTCTGTTGGAACTGGGCCATGCTGGAAGGCTCT
GCCGGCGCAGACGCCAGCTTCCAGCAGTCTCTACAAGGCCAGTTTCGACAACGTGACCTCCTACCTGAAGA
AGAAAGAGGAGAGACTGCAGCAGCAGCTAGAGAAGAAGCAGCGCGCCGGAGTCCCCCGCTGGGCCGA
CGGGCATGCCAAGAAGATGAGACCGGGGAGGCGACGCTAAGTTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202931 protein sequence
Red=Cloning site Green=Tags(s)

MAGSVGLALCGQTLVVRGGSRFLATSIASSDDSLFIYDCSAAEKKSQENKGEDAPLDQGGGAILASTFS
 KSGSYFALTDSDKRLILFRTPWQCLSVRTVARRCTALFIIASEEKVLVADKSGDVYSFVLEPHGCGRL
 ELGHL SMLLDVAVSPDDRFILTADRDEKIRVSWAAAPHISIESFCLGHTEFVSRI SVVPTQPGLLSSSGD
 GTLRRLWEYRSGRQLHCCHLASLQELVDPQAPQKFAASRIAFWCQENCVALLCDGTPVVVYIFQLDARRQQL
 VYRQQLAFQHQVWDVAFEETQGLWYLQDCQEAPLVL YRPVGDQWQSVPESTVLKKVSGVLRGNWAMLEGS
 AGADASFSSLYKATFDNVT SYLKKKEERLQQLEKKQRRRSPPPGPDGHAKKMRPGEATLSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6669_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_018669

ORF Size: 1236 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_018669.6](#)

RefSeq Size: 2168 bp

RefSeq ORF: 1239 bp

Locus ID: 10785

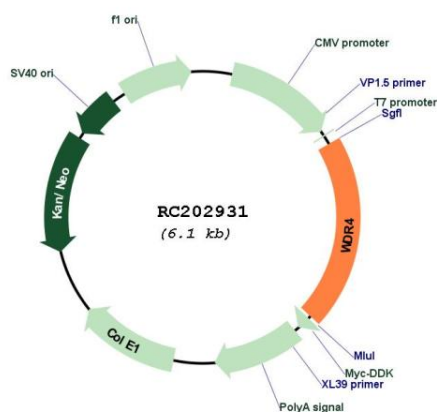
UniProt ID: [P57081](#)

Cytogenetics: 21q22.3

MW: 45.5 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-aspartate (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. This gene is excluded as a candidate for a form of nonsyndromic deafness (DFNB10), but is still a candidate for other disorders mapped to 21q22.3 as well as for the development of Down syndrome phenotypes. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, May 2012]

Product images:



Circular map for RC202931