

Product datasheet for RC234019

WDR4 (NM_001260474) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: WDR4 (NM_001260474) 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: >RC234019 representing NM_001260474
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGGCTCTGTGGGACTGGCGTTGTGCGGGCAGACGTTGGTGGTGCGGGGGCGGCAGCCGATTCTGG
 CCACCTCCATAGCAAGCAGTGATGATGACAGCCTTTCATCTATGACTGCAGTGTGCAGAAAAGAAGTC
 ACAAGAAAATAAAGGGGAGGACGCGCCCTTGACCAGGGGAGCGGTGCGATTCTGGCGTCCACCTTCTCC
 AAGTCTGGCAGCTATTTTGCTTTAACCGATGACAGTAAGCGTCTGATTCTTTCCGTACAAAACCATGGC
 AATGCTGAGTGTGAGGACCGTGGCAAGGAGGTGTACAGCCCTGACTTTCATAGCCTCGGAGGAGAAGGT
 CTGGTGGCCGACAAGTCTGGAGACGTCTACTCCTTTTCGGTGTGGAGCCACACGGGTGTGGCCGTCTA
 GAGCTGGGGCACCTGTCTATGCTGTTAGATGTGGCTGTGAGTCTGATGACCGCTTCATCCTCACTGCCG
 ACCGGGACGAGAAGATCCGAGTCAGTGGGCGCGCGCCCATAGCATCGAGTCCTTCTGCTTGGGGCA
 CACAGAGTTTGTGAGCCGTATCTCCGTGGTGCCTCACTAGCCCGGGCTGCTTCTGTCTCCTCTGGGGAC
 GGCACCTGAGGCTCTGGGAGTACAGGAGCGGCCAGCTGACTGCTGTACCTGGCCAGTCTGCAGG
 AGCTGGTGGACCCAGGCCCCAGTTTGCCCGTCCAGGATTGCATTCTGGTGCCAGGAGAAGTGCCT
 GGCCTCTGTGCGACGGCACTCTGTGGTCTACATCTCCAGCTGGACGCCGACAGCAGTGGTG
 TACAGGACAGCTGGCGTTCCAGCACAAGTGTGGGACGTGGCTTTCGAGGAGACCCAGGGGCTGTGG
 TGCTCCAGGACTGCCAGGAAGCCCTGGTGTCTACAGGCCTGTGGGCGACCAGTGGCAGTCTGTTC
 TGAGAGCACCGTGTAAAGAAAGTCTCTGGTGTCTTCTGTTGGAACTGGGCCATGCTGGAAGGCTCTGCC
 GGCGCAGACGCCAGTTCAGCAGTCTCTACAAGGCCACGTTTCGACAACGTGACCTCCTACCTGAAGAAGA
 AAGAGGAGAGACTGCAGCAGCAGCTAGAGAAGAAGCAGCGGCCGCGGAGTCCCCCGCTGGGCCGACGG
 GCATGCCAAGAAGATGAGACCGGGGAGGCGACGCTAAGTTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC234019 representing NM_001260474
Red=Cloning site Green=Tags(s)

MAGSVGLALCGQTLVVRGGSRFLATSIASSDDSLFIYDCSAAEKKSQENKGEDAPLDQGSAILASTFS
 KSGSYFALTDSDKRILFRTKWPQCLSVRTVARRCTALTFIASEEKVLVADKSGDVYSFVLEPHGCGRL
 ELGHL SMLLDVAVSPDDRFILTADRDEKIRVSWAAAPHISIESFCLGHTEFVSRI SVVPTQPGLLLSSSGD
 GTLRRLWEYRSGRQLHCCHLASLQELVDPQAPQFAASRIAFWCQENCVALLCDGTPVVYIFQLDARRQQLV
 YRQQLAFQHQVWDVAFEETQGLWVLQDCQEAPLVLYRPVGDQWQSVPESTVLKVKVSGVLRGNWAMLEGSA
 GADASFSSLYKATFDNVT SYLKKKEERLQQLEKKQRRRSPPPGPDGHAKKMRPGEATLSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001260474

ORF Size: 1233 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_001260474.1](#), [NP_001247403.1](#)

RefSeq Size: 2165 bp

RefSeq ORF: 1236 bp

Locus ID: 10785

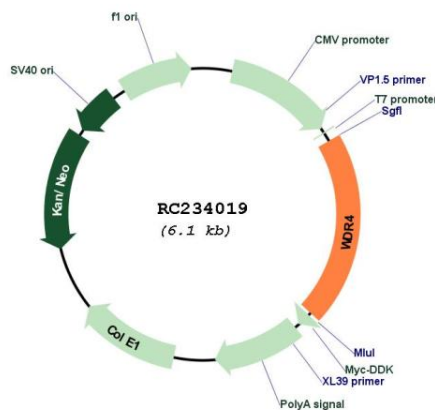
UniProt ID: [P57081](#)

Cytogenetics: 21q22.3

MW: 45.8 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-aspartic acid (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 RC234019