

## Product datasheet for **RG217569**

### WDR4 (NM\_033661) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WDR4 (NM_033661) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WDR4
Synonyms:	GAMOS6; hWH; MIGSB; TRM82; TRMT82; Wuho
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217569 representing NM_033661 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGCTCTGTGGACTGGCGTTGTGCGGGCAGACGTTGGTGGTGCGGGGGCGGCAGCCGATTCTGG  
CCACCTCCATAGCAAGCAGTGATGATGACAGCCTTTCATCTATGACTGCAGTGCAGAAAAGAAGTC  
ACAAGAAAATAAAGGGGAGGACGCGCCCTTGGACCAGGGAGCGGTGCGATTCTGGCGTCCACCTTCTCC  
AAGTCTGGCAGCTATTTTGCTTTAACCGATGACAGTAAGCGTCTGATTCTTTCCGTACAAAACCATGGC  
AATGTCTGAGTGTGACGACCGTGGCAAGGAGGTGTACAGCCCTGACTTTCATAGCCTCGGAGGAGAAGGT  
CTTGGTGGCCGACAAGTCTGGAGACGTCTACTCCTTTTCGGTGTGGAGCCACACGGGTGTGGCCGTCTA  
GAGCTGGGGCACCTGTCTATGCTGTTAGATGTGGCTGTGAGTCCTGATGACCGCTTCATCCTCACTGCCG  
ACCGGGACGAGAAGATCCGAGTCAGCTGGGCGCGGCCGCCCATAGCATCGAGTCCTTCTGCTTGGGGCA  
CACAGAGTTTGTGAGCCGTATCTCCGTGGTGCCAACTCAGCCCGGGCTGCTTCTGTCTCCTCTGGGGAC  
GGCACCCTGAGGCTCTGGGAGTACAGGAGCGGCCCGCCAGCTGCACTGCTGTACCTGGCCAGTCTGCAGG  
AGCTGGTGGACCCCGAGCCCGCCAGAAGTTGCCCGTCCAGGATTGCATTCTGGTGCCAGGAGAACTG  
CGTGGCGCTCCTGTGCGACGGCACTCCTGTGGTCTACATCTTCCAGCTGGACGCCCGAGACAGCAGTTG  
GTGTACAGGCAGCAGCTGGCGTTCCAGCACCAAGTGTGGGACGTGGCTTTCGAGGAGACCCAGGGGCTGT  
GGGTGCTCCAGGACTGCCAGGAAGCCCGCTGGTGTCTACAGGCTGTGGGCGACAGTGGCAGTCTGT  
TCCTGAGAGCACCGTGTAAAGAAAGTCTCTGGTGTCTTCTGTTGGAACTGGGCCATGCTGGAAGCTCT  
GCCGGCGCAGACGCCAGCTTCCAGCAGTCTCTACAAGGCCAGTTTCGACAACGTGACCTCCTACCTGAAGA  
AGAAAGAGGAGAGACTGCAGCAGCAGCTAGAGAAGAAGCAGCGGCCCGGAGTCCCCCGCTGGGCCGA  
CGGCATGCCAAGAAGATGAGACCGGGGAGGCGACGCTAAGTTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG217569 representing NM\_033661  
 Red=Cloning site Green=Tags(s)

MAGSVGLALCGQTLVVRGGSRFLATSIASSDDSLFIYDCSAAEKKSQENKGEDAPLDQGSAILASTFS  
 KSGSYFALTDSSKRLILFRTKWPQCLSVRTVARRCTALTFIASEEKVLVADKSGDVYVSFVLEPHGCGRL  
 ELGHL SMLLDVAVSPDDRFIL TADRDEKIRVSWAAAPHISIESFCLGHTEFVSRI SVVPTQPGLLLSSSGD  
 GTLRLWEYRSGRQLHCCHLASLQELVDPQAPQKFAASRIAFWCQENCVALLCDGTPVVYIFQLDARRQQL  
 VYRQQLAFQHQVWDVAFEETQGLWYLQDCQEAPLVLYRPVGDQWQSVPESTVLKKVSGVLRGNWAMLEGS  
 AGADASFSSLYKATFDNVTSYLKKEERLQQLEKKQRRRSPPPGPDGHAKKMRPGEATLSC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_033661

**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\\_033661.4](#)

**RefSeq Size:** 1524 bp

**RefSeq ORF:** 1239 bp

**Locus ID:** 10785

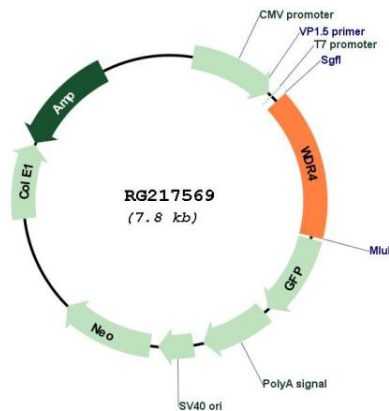
**UniProt ID:** [P57081](#)

**Cytogenetics:** 21q22.3

**Domains:** WD40

**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. 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 RG217569