

## Product datasheet for **RG233596**

### WDR4 (NM\_001260477) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WDR4 (NM_001260477) 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:	>RG233596 representing NM_001260477 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGTTAGATGTGGCTGTGAGTCCTGATGACCGCTTCATCCTCACTGCCGACCGGGACGAGAAGATCC  
GAGTCAGCTGGGCGCGGCCATAGCATCGAGTCCTTCTGCTTGGGACACAGAGTTTGTGAGCCG  
TATCTCCGTGGTGCCAACTCAGCCGGGCTGCTTCTGTCCTCTGTTGGGACGGCACCTGAGGCTCTGG  
GAGTACAGGAGCGGCCAGCTGCACTGCTGTACCTGGCCAGTCTGCAGGAGCTGGTGGACCCCAAG  
CCCCCAGAAGTTGCCGCGTCCAGGATTGCATCTGGTGCCAGGAGAACTGCGTGGCGCTCCTGTGCGA  
CGGCACTCCTGTGGTCTACATCTCCAGCTGGACGCCCGAGACAGCAGTTGGTGTACAGGCAGCAGCTG  
GCGTTCAGCACCAAGTGTGGGACGTGGCTTTCGAGGAGACCCAGGGGCTGTGGGTGCTCCAGGACTGCC  
AGGAAGCCCCCTGGTGTCTACAGGCCTGTGGGCGACCAAGTGGCAGTCTGTTCCAGAGCACCCTGTT  
AAAGAAAGTCTCTGGTGTCTTCGTGGGAACTGGGCCATGCTGGAAGGCTCTGCCGGCGCAGACGCCAGC  
TTCAGCAGTCTCTACAAGCCACGTTTCGACAACGTGACCTCCTACCTGAAGAAGAAAGAGGAGAGACTGC  
AGCAGCAGCTAGAGAAGAAGCAGCGGCCGCGGAGTCCCCCGCTGGGCCCGACGGGCATGCCAAGAAGAT  
GAGACCGGGGAGGCGACGCTAAGTTGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233596 representing NM\_001260477  
 Red=Cloning site Green=Tags(s)

MLLDVAVSPDDRFILTADRDEKIRVSWAAAPHSIESFCLGHTEFVSRISVVPTQPGLLLSSSGDGLRLW  
 EYRSGRQLHCCHLASLQELVDPQAPQKFAASRIAFWCQENCVALLCDGTPVVYIFQLDARRQQLVYRQQL  
 AFQHQVWDVAFEETQGLWVLQDCQEAPLVLYRPVGDQWQSVPESTVLKKVSGVLRGNWAMLEGSAGADAS  
 FSSLYKATFDNVTSYLKKKKEERLQQLEKKQRRRSPPPGPDGHAKKMRPGEATLSC

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001260477

**ORF Size:** 798 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\\_001260477.1](#), [NP\\_001247406.1](#)

**RefSeq Size:** 2223 bp

**RefSeq ORF:** 801 bp

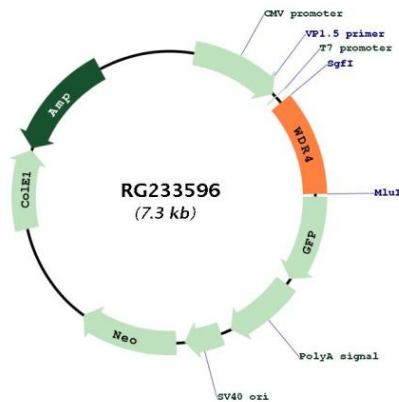
**Locus ID:** 10785

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

**Cytogenetics:** 21q22.3

**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 RG233596