

Product datasheet for **RG205421**

WDR16 (CFAP52) (NM_145054) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	WDR16
Synonyms:	WDR16; WDRPUH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG205421 representing NM_145054
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATAACAAAATTTCCGCGGAGGCCAAGTGGCGGAGCTGGAACCTGACGCCGTGATCGGCTTCAATG
 GACATGTGCCCACTGGTCTCAAATGCCATCCTGACCAGGAGCATATGATTATCCTCTTGGTTGCACAGT
 CCTCATTACAGGCAATAATACTAAAGAGCAGAAGTCTACAGGGTCATGGCAACAACGCTCTCCTGCTTG
 GCCATCTCCAGGTCTGGAGAGTACATCGCCTCCGACAAAGTACATTATCAGGGGTTCAAGGTAGACATCA
 TTTTGTGGGATTATAAGAACAGAGAGCTGCTTGTCTCGGCTGTCCCTTCAAAAGGCAAAATTTGAAGCTCT
 GGCCCTTTTCTCCAAATGATTTTGTACTTGGTATCACTAGGAGGCCAGATGACGGAAGTGGGTGGTGTGG
 AGCATAGCCAAGAGAGATGCCATCTGTGGCAGCCCTGCAGCCGGCCTCAATGTTGGCAATGCCACCAATG
 TGATCTTCTCCAGGTGCCGGGATGAGATGTTTATGACTGCTGGAATGGGACAATTCGAGTATGGGAATT
 GGATCTTCCAAATAGAAAAATCTGGCCAAGTACAGGCAACAGGACAGTTGAAAAGATAGTCATGAGT
 ATTGGAGTGGATGATGATGATAGCTTTTTCTACCTTGGCACCACGACTGGAGATATTCTAAAAATGAACC
 CCAGGACTAACTGCTGACAGATGTTGGGCTCGAAGGACAAATTCAGTTTGGGAGTGTACAGTATCAG
 GTGCTGAAGATGGGGGTTTGTGGTGGGCTCTGGAGCCGGACTGCTGGTCTTCTGTAAAAGCCCTGGC
 TACAAACCCATCAAGAAGATTCAGTTTACAGGCGGCATCACTTCTATCACACTTCGAGGAGAAGGACACC
 AGTTTCTCGTAGGAACAGAAGATCGCACATTTATCGTGTACAGTTTACGGAATTTCAAAGAGACGCTCAT
 AGCGACTTGTCACTTTGATGCTGTCAAGGATATTGTCTTTCCATTGGCACTGCTGAGCTATTTGAACC
 TGTGCCAAGAAGGATATCAGGGTGTGGCACACATCATCAACAGGAGCTGCTGCGGATCACCCTGCCCA
 ACATGACCTGCCACGGCATCGACTTCATGAGGGACGGCAAAAGCATCTTCAGCATGGAACGACGGTAA
 AATCCGAGCCTTCGCCCCAGAGACAGGCCGACTGATGTATGTCATTAACAATGCTCACAGGATCGGCGTC
 ACCGCCATCGCCACCACAGTACTGTAAAAGGGTCATCAGTGGCGGTGGGGAAGGGAGGTGAGGGTAT
 GGCAGATAGGCTGTGAGCCAGAAGCTGGAGGAGGCCCTGAAGGAACACAAGTCATCAGTGTCTGTCAT
 TAGGGTGAAGGAACAACGAGGAGTGTGTACCGCCAGCACCGATGGGACTTGTATCATTTGGGACCTT
 GTGCGTCTCAGGAGGAATCAGATGATACTAGCCAACACCTTATTCAGTGTGTGTGCTATCACCTGAGG
 AGTTCCAGATCATCACCAGCGGAACAGACAGAAAGATTGCTTACTGGGAAGTATTTGATGGGACAGTAAT
 CAGAGAATTGGAAGGTTCCCTGTCTGGGTCGATAAATGGCATGGATATCACACAGGAAGGGGTGCACTTT
 GTCACAGGTGGAATGACCATCTGGTCAAAGTTTGGGATTATAATGAGGGTGAAGTACTCACGTTGGGG
 TGGGACACAGTGGCAACATCACACGCATCCGCATAAGTCCAGGAAATCAATATATTGTTAGTGAAGTGC
 CGATGGAGCCATTTTTCGATGGAAGTACCATATACCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205421 representing NM_145054
 Red=Cloning site Green=Tags(s)

MDNKISPEAQVAELEDVIGFNHVPGLKCHPDQEHMIYPLGCTVLIQAINTKEQNFLQGHGNNVNSCL
 AISRSGEYIASGQVTFMGFKVDIILWDYKNRELLARLSLHKGKIEALAFSPNDLYLVSLGGPDDGSVVVW
 SIAKRDAICGSPAAGLNVGNATNVIFSRCDMEFMTAGNGTIRVWELDLPNRKIWPTESQTGQLKRIVMS
 IGVDDDDSFYLGTTTGDILKMNPRTKLLTDVGPADKDFSLGVSAIRCLKMGGLLVGSGALLVFCKSPG
 YKPIKKIQLQGGITSITLRGEHQFLVGTESHIYRVSTDFKETLIATCHFDVAVKDIVFPFGTAELFAT
 CAKKDIRVWHTSSNRELLRITVPNMTCHGIDFMRDGKSIISAWNDGKIRAFAPETGRLMYVINNAHRIGV
 TAIATTSACKRVISGGEGEVRVWQIGCQTQKLEELKEHKSSVSCIRVKRNNEECVASTDGTCTCIWDL
 VRLRRNQMI LANTLFQVCYHPEEFQIITSGDRKIAYWEVFDGTVIRELEGLSGSINGMDITQEGVHF
 VTGGNDHLVKVWDYNEGEVTHVGVGHSGNITRIRISPGNQYIVSVSADGAILRWKYPYTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145054

ORF Size: 1860 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.

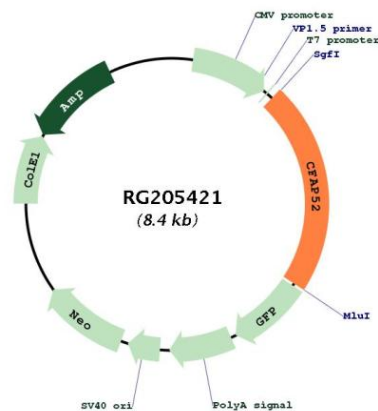
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145054.1](#), [NP_659491.1](#)

RefSeq Size:	2207 bp
RefSeq ORF:	1863 bp
Locus ID:	146845
UniProt ID:	Q8NIV2
Cytogenetics:	17p13.1
Domains:	WD40

Gene Summary: WD repeat-containing proteins, such as WDR16, play crucial roles in a wide range of physiologic functions, including signal transduction, RNA processing, remodeling the cytoskeleton, regulation of vesicular traffic, and cell division (Silva et al., 2005 [PubMed 15967112]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG205421