

Product datasheet for **RG239027**

WDR48 (NM_001303402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR48 (NM_001303402) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WDR48
Synonyms:	Bun62; P80; SPG60; UAF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239027 representing NM_001303402.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAGTGTCAATCAGCACAAGTAATATCTGCTTCTTCTGACACGACAGTAAAAGTATGGAATGCACAC
AAGGGATTTTGCATGTCAACATTAAGGACACATAAGGATTACGTAAGGCCTTAGCATATGCCAAGGAT
AAAGAAGTAGTAGCATCAGCTGGGTTGGACAGACAAATATTCCTTTGGGATGTGAATACTCTAACAGCA
TTGACTGCCTCAAATAACACTGTCACAACCTTCTCTTTAAGTGGAAACAAAGATTCCATTTATAGCCTG
GCCATGAATCAACTGGGAACAATCATTGTATCAGGGTCCACTGAAAAGGTGTACGGGTATGGGATCCA
AGAACATGTGCAAACTAATGAAGCTTAAAGGGCACACGGATAATGTGAAGGCATTGCTATTAACAGA
GATGGCACGCAATGCCTGTCAGGCAGTTCTGATGGGACAATTGCCTTTGGTCCCTTGCCAGCAGAGA
TGTATAGCAACATACCGAGTCCATGATGAAGGTGTTGGGCGCTGCAAGTCAATGATGCCTTCACACAT
GTGATTCTGGTGAAGGGACAGGAAGATTTATTGTACAGACCTAAGAAACCCTGACATTCGGGTGCTA
ATTTGTGAAGAAAAGCACCAGTTCTCAAGATGGAGCTTGATAGATCAGCTGATCCTCCTCTGCAATT
TGGGTTGCAACAATAAGTCTACAGTAAATAAATGGACTTTGAAAGGAATTCATAATTTTAGAGCCTCT
GGAGATTATGACAATGACTGTACAAATCCTATAACACCTCTTGTACACAACCTGACCAGGTTATTTAAA
GGGGTGTAGTATTATTCAGTGCCACATTCCTAATGATAAGAGACATATATTAACCAAAGATACCAAT
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GATGAAATTAAGAAAAGATTTAAATGGTGTATGTGCCAAATGGTTCTCAGTAGACTTAAAAACAGGG
ATGTTAACTATTACTTTGGATGAAAGTGATTGTTTTGCTGCCTGGGTTTCTGCAAAAGATGCTGGTTTC
AGCAGCCTGATGGGTCAGATCCAAAATGAATTTAGGAGGACTTTTACTCCAAGCACTCCTGGAATAT
TGGCCTAGAACACATGTGAATCCAATGGATGAAGAGGAAAATGAAGTAAACCATGTAATGGGGAGCAG
GAGAACCAGAGTGCAGAAGGAAAATGGATATTTTCAAGTGCCCCCATACACCCGTGATCTTTGGTGAA
GCTGGAGGTGCGCACACTGTTCAAGCTGCTGCCGAGATTCCGGGGTGAGACTGAGTCTATGCTTCTT
AATGAAACAGTGCCACAATGGGTAATTGACATCACTGTGGATAAAAAATGCCCCAATTCACAAAAATT
CCTTTCTACCTCCAACCTCATGCATCTTCAGGAGCAAAAACCTTAAAAAAGATAGACTCTCTGCTAGT
GACATGCTCCAAGTCCGAAAAGTTATGGAACATGTTTATGAAAAAATTATCAACTGGATAATGAGTCT
CAAACCACTAGCTCTTCTAATAATGAAAAACCAGGAGAACAGGAAAAAGAAGAAGATATTGCTGTGTTG
GCAGAGGAGAAAATTGAACTTTTGTGCCAGGACCAGGTTTGGATCCAAATATGGACCTTCGAACAGTG
AAACACTTCATATGGAAGAGCGGTGGAGACCTCACCTCCATTACCGTCAGAAGTCCACG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG239027
 Blue=ORF Red=Cloning site Green=Tag(s)

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MECQSAQVISASSDITVKVWNAHKGFMCSTLRTHKDYVKALAYAKDKELVASAGLDRQIFLWDVNTLTA
LTASNNTVTTSSLSGNKDSIYSLAMNQLGTIIIVSGSTKVLRVWDPRTCAKLMKLGHTDNVKALLNR
DGTQCLSGSSDGTIRLWSLQQRCIATYRVHDEGVWALQVNDAFTHVYSGRDRKIYCTDLRNPDIRVL
ICEEKAPVLKMEIDRSADPPPAIWWATTKSTVNKWLKGIHNFRAASGDYDNDCTNPITPLCTQPDQVIK
GGASIIQCHILNDRHILTKDNTNNVAWYDVLKACKVEDLGKVFDEIKKRFKMYVVPNWFVSDLKGTG
MLTITLDESDFAAWVSAKDAGFSSPDGSDPKLNLGGLLQALLEYWRTHVNPMDDEEENEVNHVNGEQ
ENRVQKNGYFQVPPHTPVIFGEAGRTRLFRLLCRDSGGETESMLLNETVPQWVIDITVDKNMPKFNKI
PFYLPQHASGAKTLKKDRLSASDMLQVRKVMHVYEKIINLDNESQTTSSSNNEKPGEQEKEDIIVL
AEEKIELLCQDQVLDPNMDLRTVKHF IWKSGGDLTLHYRQKST
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001303402

ORF Size: 1785 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).

RefSeq: [NM_001303402.2](#)

RefSeq Size: 3948 bp

RefSeq ORF: 1788 bp

Locus ID: 57599

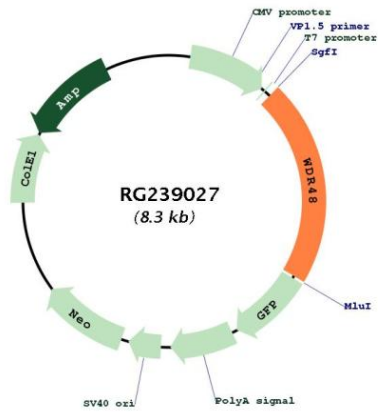
UniProt ID: [Q8TAF3](#)

Cytogenetics: 3p22.2

MW: 67.2 kDa

Gene Summary: The protein encoded by this gene has been shown to interact with ubiquitin specific peptidase 1 (USP1), activating the deubiquitinating activity of USP1 and allowing it to remove the ubiquitin moiety from monoubiquitinated FANCD2. FANCD2 is ubiquitinated in response to DNA damage. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG239027