

Product datasheet for **RC239027**

WDR48 (NM_001303402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR48 (NM_001303402) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR48
Synonyms:	Bun62; P80; SPG60; UAF1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC239027 representing NM_001303402
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTGTCAATCAGCACAAGTAAATATCTGCTTCTTCTGACACGACAGTAAAAGTATGGAATGCACACA
 AGGGATTTTGCATGTCAACATTAAGGACACATAAGGATTACGTAAGGCCTTAGCATATGCCAAGGATAA
 AGAACTAGTAGCATCAGCTGGGTGGACAGACAAATATTCCTTTGGGATGTGAATACTCTAACAGCATTG
 ACTGCCTCAAATAACACTGTCACAACTTCTTCTTAAAGTGGAAACAAAGATTCCATTTATAGCCTGGCCA
 TGAATCAACTGGGAACAATCATTGTATCAGGGTCCACTGAAAAGGTGTTACGGGTATGGGATCCAAGAAC
 ATGTGCAAACTAATGAAGCTTAAAGGGCACACGGATAATGTGAAGGCATTGCTATTAACAGAGATGGC
 ACGCAATGCCTGTCAGGCAGTCTGATGGGACAATTCGCCTTTGGTCCCTGGCCAGCAGAGATGTATAG
 CAACATACCGAGTCCATGATGAAGGTGTTGGGCGCTGCAAGTCAATGATGCCTTACACATGTGTATTC
 TGGTGGAAAGGACAGGAAGATTTATTGTACAGACCTAAGAAACCCTGACATTCGGGTGCTAATTTGTGAA
 GAAAAAGCACCAGTTCTCAAGATGGAGCTTGATAGATCAGCTGATCCTCCTCCTGCAATTTGGGTTGCAA
 CAACTAAGTCTACAGTAAATAAATGGACTTTGAAAGGAATTCATAATTTAGAGCCTCTGGAGATTATGA
 CAATGACTGTACAAATCCTATAACACCTTTTGTACACAACTGACCAGGTTATTAAGGGGGTGTAGT
 ATTATTCAGTGCCACATTCCTAATGATAAGAGACATATTAACCAAAGATACCAATAATAATGTGGCAT
 ATTGGGATGTATTGAAGGCATGTAAAGTTGAAGATCTGGGCAAAGTGGATTTTGAAGATGAAATTAAGAA
 AAGATTTAAAATGGTGTATGTGCCAAATGGTTCTCAGTAGACTTAAAAACAGGGATGTTAACTATTACT
 TTGGATGAAAGTATTGTTTTGCTGCCTGGGTTTCTGCAAAGATGCTGGTTTTCAGCAGCCTGATGGGT
 CAGATCCAAAATGAATTTAGGAGGACTTTTACTCCAAGCCTCTGGAATATTGGCCTAGAACACATGT
 GAATCCAATGGATGAAGAGGAAAATGAAGTAAACCATGTAATGGGGAGCAGGAGAACCAGTGCAGAAG
 GGAAATGGATATTTTCAAGTGCCCCACATACACCCGTGATCTTTGGTGAAGCTGGAGGTCGCACACTGT
 TCAGGCTGCTCTGCCGAGATTCGGGGGTGAGACTGAGTCTATGCTTCTTAATGAAACAGTGCCACAATG
 GGTAAATTGACATCACTGTGGATAAAAAATATGCCCAAATTCACAAAAATTCCTTTTACCTCCAACCTCAT
 GCATCTTCAGGAGCAAAAACCTTAAAAAAGATAGACTCTCTGCTAGTGACATGCTCCAAGTCCGAAAAG
 TTATGGAACATGTTTATGAAAAATTATCAACTGGATAATGAGTCTCAAACCTAGCTCTTCTAATAA
 TGAAAAACCAGGAGAACAGGAAAAAGAAGATATTGCTGTGTTGCCAGAGGAGAAAATGAACTTTTG
 TGCCAGGACCAGTTTTGGATCCAATATGGACCTTCGAACAGTGAACACTTCATATGGAAGAGCGGTG
 GAGACCTCACCTCCATTACCGTCAAGTCCACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC239027 representing NM_001303402
 Red=Cloning site Green=Tags(s)

MECQSAQVISASSDITVKVWNAHKGFMCSTLRTHKDYVKALAYAKDKELVASAGLDRQIFLWDVNTLTAL
 TASNNTVTTSSLSGNKDSIYSLAMNQLGTIIIVSGSTKVLRVWDPRCTAKLMKLGHTDNVKALLNDRDG
 TQCLSGSSDGTIRLWSLQQRCIATYRVHDEGVWALQVNDAFTHVYSGGRDRKIYCTDLRNPDIRVLICE
 EKAPVLKMEIDRSADPPPAIWVATTKSTVNKWLKGIHNFRAAGDYDNDCTNPITPLCTQPDQVIKGGAS
 IIQCHILNDRHILTKDTNNVAAYWDLKACKVEDLGKVD FEDEIKRFRKMVYVNPWFVLDLKTGMLTIT
 LDESDFAAWVSAKDAGFSSPDGSDPKLNLGLLLQALLEYWRTHVNPMDDEEENEVNHVNGEQENRVQK
 GNGYFQVPPHTPVI FGEAGGRTLFRLLCRDSGGETESMLLNETVPQWVIDITVDKNMPPKFNKIPFYLQPH
 ASSGAKTLKKDRLSASDMLQVRKVMHVYEKIINLDNESQTTSSSNNEKPGEQEKEEDIIVLAEKIELL
 CQDQVLDPNMDLRTVKHFIWKSGGDLTLHYRQKST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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_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]