

Product datasheet for **RC205497**

WDR48 (NM_020839) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR48 (NM_020839) 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:

>RC205497 representing NM_020839
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCGGCCCATCACCGCAGAACACAGCAGGGCGGAGGAAAGTGCAGGTTTCCTATGTTATTCGAGATG
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CACTGAAAAGGTGTTACGGGTATGGGATCCAAGAACATGTGCAAACTAATGAAGCTTAAAGGGCACACG
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TTCGCCTTTGGTCCCTTGGCCAGCAGAGATGTATAGCAACATACCGAGTCCATGATGAAGGTGTTTGGGC
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G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205497 representing NM_020839
 Red=Cloning site Green=Tags(s)

MAAHRQNTAGRRKVVQSVYIRDEVEKYNRNGVNALQLDPALNRLFTAGRDSIIRIWSVNQHKQDPYIAS
 MEHHTDWNIDIVLCCNGKTLISASSDTTVKVWNAHKGFCMSTLRTHKDYKALAYAKDKELVASAGLDRQ
 IFLWDVNTLTAL TASNNTVTTSSL SGNKDSIYSLAMNQLGTII VSGSTEVLRVWDPRTCAKLMKLGHT
 DNVKALLLN RDGTQCLSGSSDGTIRLWSL GQQRCIATYRVHDEGVWALQVNDAFTHVYSGGRDRKIYCTD
 LRNPDIRVLICEEKAPVLKME LDRSADPPP AIWVATT KSTV NKWTLKGIHNF RASGDYDNDCTNPITPLC
 TQPDQVIKGGASIIQCHILNDRHILTKDTNNAVAYWDLKACKVEDLGKVD FEDEIKKRFKM VYVPNWF
 SVDLKTGMLTITLDESDFAAWVS AKDAGFSSPDGSDPKLNLG LLLQALLEYWP RTHVNP MDEEENEVN
 HVNGEQENRVQKNGYFQVPPHTP VIFGEAGGRTLFRLLCRDSSGETESMLLNETVPQWVIDITVDKNMP
 KFNKIPFYLQPHASSGAKTLKDR L SASDMLQVRKVM EHVYEKI INLDNESQTTSSSNNEK PGEQEKEED
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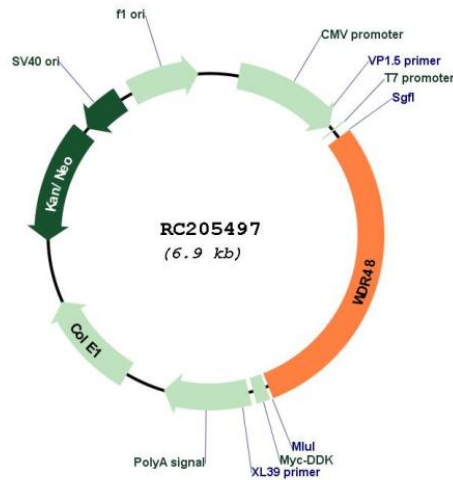
Chromatograms: https://cdn.origene.com/chromatograms/mg3515_b09.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_020839

ORF Size: 2031 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_020839.2](#), [NP_065890.1](#)

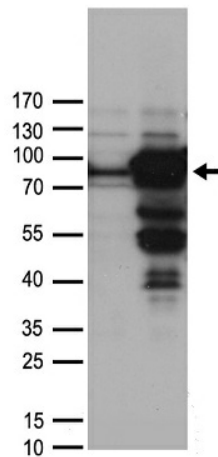
RefSeq Size: 3705 bp

RefSeq ORF: 2034 bp

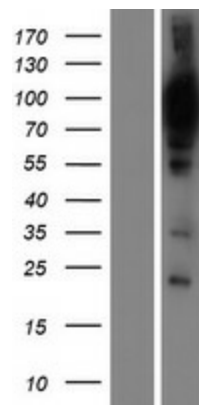
Locus ID: 57599
UniProt ID: [Q8TAF3](#)
Cytogenetics: 3p22.2
Domains: WD40
MW: 76 kDa

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]

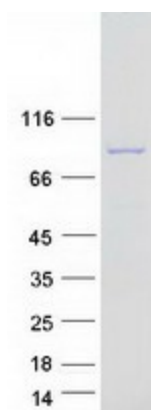
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY WDR48 (Cat# RC205497, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-WDR48 antibody (Cat# [TA890061]). Positive lysates [LY412261] (100ug) and [LC412261] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412261]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205497 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WDR48 protein (Cat# [TP305497]). The protein was produced from HEK293T cells transfected with WDR48 cDNA clone (Cat# RC205497) using MegaTran 2.0 (Cat# [TT210002]).