

Product datasheet for **MG209959**

Wdr48 (NM_026236) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr48 (NM_026236) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wdr48
Synonyms:	8430408H12Rik; mKIAA1449; Uaf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG209959 representing NM_026236
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCCCATCACCGCAGAACACAGCCGGCGGAGGAAAGTGCAGGTTTCTTATGTAATTCGAGATG
AAGTGGAGAAATACAATCGGAATGGAGTCAATGCCCTGCAACTGGACCCAGCACTCAACAGACTCTTAC
AGCAGGTCGAGACTCCATCATAAGAATATGGAGTGTCAATCAGCACAAGCAAGATCCGTACATAGCATCT
ATGGAGCACCATACAGACTGGTAAATGATGTCGTGCTCTGTTGCAATGGGAAAACGCTAATTTCTGCTT
CTTCAGACACAACAGTCAAAGTCTGGAATGCACATAAAGGGTTCTGCATGTCCACACTCAGGACGCATAA
GGACTATGTAAGGCCTTAGCGTACGCCAAGGATAAAGAGCTGGTAGCGTCAGCTGGGCTGGACAGACAG
ATATTCTTTGGGATGTGAACACTCTGACGGCACTGACTGCCTCAAACAACACCGTTACAACCTTCTTCTT
TAAGTGGGAACAAAGACTCCATTTATAGCCTGGCCATGAACCAACTGGGAAACAATCATTGTATCAGGGTC
CACTGAGAAGGTTCTGAGAGTGTGGGATCCAAGAACCTGCGCGAAACTCATGAAGCTGAAAGGACATACG
GACAATGTGAAGGCCTTGTCTGCTGCACAGGACGGCACACAGTGCCTCTCTGGGAGTTCTGACGGGACCA
TTGCGCTGTGGTCCCTTGCCAGCAGAGATGTATAGCAACATACCGAGTCCATGATGAAGGTGTTTGGGC
CCTACAGGTCAACGATGCCTTTACACATGTATATTCTGGAGGACGAGACAGGAAAATCTACTGCACAGAC
CTAAGGAACCTGACATTCGGGTACTGATTTGTGAAGAAAAAGCACCAGTTCTCAAGATGGAACCTTGACA
GATCAGCAGATCCCCCTCTGCAATCTGGGTGCAACAACAAAGTCCACAGTAAATAAGTGGACTGAA
GGGAATTCATAATTTTCGAGCCTCTGGTGATTATGACAATGATTGTACAAACCCATAACGCCCTCTGC
ACACAGCCCGACCAAGTTATTAAGGGGGCGCTAGTATTATTAGTCCACATCCTAAATGACAAGCGAC
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TTTGGGCAAAGTGGACTTTGAAGATGAAATTAAGAAAAGATTTAAAATGGTGTATGTTCCAAATTGGTTC
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ACAGGCACTGCTGGAATACTGGCCAGGACACATGTGACTCCCATGGATGAAGAAGAGAATGAAGTGAAC
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TGAGGCGATGCTTCTCAATGAGACGGTCCACAATGGGTGATTGACATCACTGTGGATAAAAAATATGCC
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GGCTGTCTGCCAGTGACATGCTGCAGGTCGGAAAGGTGATGGAGCACGTCTACGAGAAGATTATCAACCT
GGACAATGAGTCCAAAACACCAGCTCTTCAATAATGAAAAGCCAGAGCAGGAGAGGAGGAGGACATC
GCGGTATTGGCAGAGGAGAAAATTGAACCTCTGTGCCAGGACCAGGTTTTGGACCCAAATATGGACCTTC
GGACAGTAAAGCACTTCATATGGAAGAGTGGTGGGGACCTCACCTCCATTACCGTCAGAAGTCCACG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209959 representing NM_026236
 Red=Cloning site Green=Tags(s)

MAAHRQNTAGRRKVVQSYVIRDEVEKYNRNGVNALQLDPALNRLFAGRDSIIIRIWSVNHKQDPYIAS
 MEHHTDWNVDVLLCCNGKTLISASSDTTVKVWNAHKGFCMSTLRTHKDYKALAYAKDKELVASAGLDRQ
 IFLWDVNTLTALTASNNTVTTSSLGSKDSIYSLAMNQLGTIIIVSGSTKVLRVWDPRTCAKLMKLGHT
 DNVKALLLHRDGTQCLSGSSDGTIRLWSLGGQRCIATYRVHDEGVWALQVNDAFTHVYSGGRDRKIYCTD
 LRNPDIRVLICEEKAPVLKMELEDRSADPPPAIWWATTSTVNVKWTWKGIHNFASGDYDNDCTNPITPLC
 TQPDQVIKGGASIIQCHILNDRHILTKDTNNNVAYWVLDKACKVEDLGKVFDEIKKRFKMVYVYVNW
 SVDLKGTMLTITLDESDFAAWVSAKDAFGSSPDGSDPKLNLGGLLQALLEYWPRTHTVPMDEEENEV
 HVSGGQESRVQKNGYFQVPPHTPVIFGEAGGRTLFRLLCRDSSGGETEAMLLNETVPQWVIDITVDKNMP
 KFNKIPFYLQPHASSGAKTLKKDRLSASDMLQVRKVMHVYEKIINLDNESQTTSSSNNEKPEQEKEEDI
 AVLAEEKIELLCQDQVLDPNMDLRTVKHFIVKSGGDLTLHYRQKST

TRTRPLE - GFP Tag - V

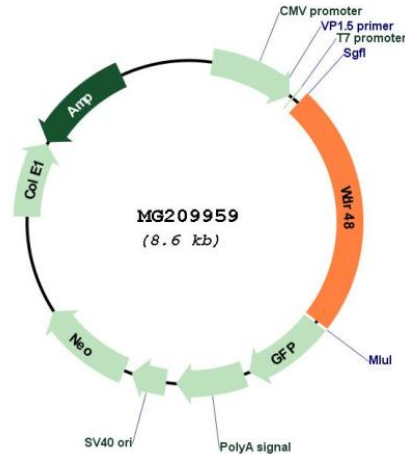
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_026236

ORF Size: 2028 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_026236.3](#), [NP_080512.1](#)

RefSeq Size: 3821 bp

RefSeq ORF: 2031 bp

Locus ID: 67561

UniProt ID: [Q8BH57](#)

Cytogenetics: 9 F4

Gene Summary: Regulator of deubiquitinating complexes. Acts as a strong activator of USP1 and USP46. Enhances the USP1-mediated deubiquitination of FANCD2; USP1 being almost inactive by itself. Also activates deubiquitinating activity of complexes containing USP12. Activates deubiquitination by increasing the catalytic turnover without increasing the affinity of deubiquitinating enzymes for the substrate.[UniProtKB/Swiss-Prot Function]