

Product datasheet for **SC108615**

WDR41 (NM_018268) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	WDR41
Synonyms:	MSTP048
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF within SC108615 sequence for NM_018268 edited (data generated by NextGen Sequencing)

ATGTTGCGATGGCTGATCGGGGAGGCCGAGAACCGCAGGGACTGGCCGAGAAATCTCCT
TTACAGACAAATAGGTGAAGAACAAACCCAGAATCCCTACACTGAACTGCTAGTACTGAAG
GCTCATCATGATATTGTACGATTTCTGGTACAGTTAGATGACTACAGATTGTCATCTGCT
GGTGTATGATGGAATTGTAGTTGTGTGAATGCCAGACAGGGGAAAACTTTTAGAAGTGA
AATGGACACACTCAAAAGATAACAGCTATTATTACATTTCTTCTTGGAACTCTGTGAA
GAGAAAAATCAACTCATCTTGACAGCCTCTGCTGATAGAACAGTTATTGTATGGGATGGT
GATACTACCAAGACAAGTTCAGAGAATATCATGCTTCCAGTCTACTGTAAAGTGTTTAACT
GTTCTTCAGAGACTAGATGTTTGGCTTTCTGGTGGGAATGACCTGTGTGTGTGGAACCGA
AAATTAGATCTCCTGTGAAGACTAGCCACCTTTCTGATACAGGTATTAGTGCTTTGGTT
GAAATACCTAAGAACTGTGTTGTGGCAGCAGTTGGCAAGAACTGATAATTTTCAGGTTG
GTAGCACCCACAGAAGGATCACTAGAATGGGATATTCTTGAAGTTAAGCGCCTCCTTGAT
CACCAGGATAATATTCTCTCATTGATTAATGTCAATGATTTGAGTTTTGCACCGGCTCC
CACGTGGAGAGCTGATCATCTGGGATGCCCTGGACTGGACCATGCAGGCCTATGAACGC
AACTTCTGGGACCATCTCCACAACCTGGACACCCAACAAGAAATAAACTCTGTCAAAAA
TCAATGACATTTCTATTTCATCATTTACATGTGATGAAGAGAATGTATTGTCTGCAGTT
GGAAGGGGTTTATACGTGTATAGCCTTCAAATGAAGCGTGTGATTGCCCTGCCAGAACT
GCACATGACTCCAATGTCCTGCAGTTGCCAGACTTCCAAACAGGCAGTTAATCTCATGC
TCAGAAAGATGGCAGTGTACGCATTTGGGAGTTAAGAGAAAAACAGCAGCTTGACGCTGAG
CCTGTACCAACAGGTTTTTTTAAACATGTGGGGATTTGGAAGAGTCAGCAACAAGCCAGC
CAACCTGTTAAAAAGCAGCAAGAAATGCTACTTCATGTTCACTGGAGCTTATTGGAGAT
TTGATTGGACACTCATCATCTGTGGAGATGTTTCTATACTTTGAAGATCATGGACTAGTG
ACGTGCTCCGCTGATCATCTCATTATTTGTGAAAAATGGAGAGCGAGAATCTGGATTG
CGCAGTTTAAGATTATTTCAAAAATTAGAGGAGAATGGTGACTTATACCTTGCTGTCTAG

Clone variation with respect to NM_018268.2
351 g=>a

**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_018268 unedited
TTGTATACGACTCACTATAGGCGCCGCGAATTCGCACGAGGCCGCTCGGCCGCCGCAC
CCCCAAGCGACTGCCAACTAAGCCTCCGTGGCTGGGTACGGGAGCGCTTTGGGGACAAA
AATTCTCCCTCAACTGTGGTCTGCATTCTTCGCCCCGTGGGCTGATCTGGGGCGGGAAG
TATTAGCGTCTCAGTTGCGCTGCAGCCGGGAGGAAGGAGGAGCCGAGCCTGGGGCGGA
GTTTGGGCTGACTGGGGCTGGACCGGGCAAGACGCCCGCTGCCCGGATGTTGCGATGG
CTGATCGGGGAGGCCGAGAACCAGGAGCTGGCCGAGAAATCTCCTTTACAGACAATA
GGTGAAGAACAAACCCAGAATCCCTACACTGAACTGCTAGTACTGAAGGCTCATCATGAT
ATTGTACGATTTCTGGTACAGTTAGATGACTACAGATTTGCATCTGCTGGTGATGATGGA
ATTGTAGTTGTGTGGAATGCCAGACAGGGGAAAACTTTTAGAAGTGAATGGACACACT
CAAAAAGATAACAGCTATTATTACATTTCTTCTTGGAACTTTGTGAAGAGAAAAATCAA
CTCATCTTGACAGCCTCTGCTGATAGAACAGTTATTGTATGGGGATGGGTGATACTACCA
GNACAAGTTCAGAGAATATCATGCTTNCAGTCTACTGTAAAGTGTTTTAACTGTTCTTCA
GAGACTANNATGTTTGGNCTTTCTGGNTGGGAATGACCCTGTGTGTGGTGAACCGAAAA
ATANATCTTCTGTGTAGAACTAGCCACCTTTCTGATACAGTATTAGTGCTCTTGGGTGGA
ATACTAAAAACCTGGGTGGGGCCANCAAGTTGGCAAGACTGATATTTTTCAGGTTGGTAA
GCACACAGAA

3' Read Nucleotide
Sequence:

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>OriGene 3' read for NM_018268 unedited
ATGGCCGCGCCGCAATCTAGAGTCGAGNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTAAAAAATTTCTAATATTTTATTTTTTACCCCAAAA
AGGAAAAAACATTTTGTACAAGGCTGTTATAGGGTCTCAATGGACCCGCAAAAAAAT
ACCTAAAAAAGTCTGTCTCAAGCAGTTCTGATTTGAGTCAGGGGCCAAATGGGGCAGTT
GCGCTCAACTGCAGTCCCTGACTCCGGAACACTGGGCCTTTCAAATGATCTAAAGCTCA
TCCTTGGCGTACATGAGGGGCGAGTTGTTGTTTTAACACCCATTTAACCCATGGTTTTTCA
AGCCAATTCACACTGGGAAAAACACACCCTCACAAAAAGCCTATCCATTTGAGTTCATAC
AGGTTTTAATAGCTAAAACTAAAAACATTTTTAAAAATTATTTAAACAAATTGGTACCAA
AAAAAATCTGCCATACTTAAACAGTATATATGTTCCCTTTTTTGGCTGCGAAATTCAGT
TTGGGCTATATAAAACACTAACCGTTTCTAAAGACTAGGAAATTTGCCGGAGAAAGGCT
ATTTTTAAACTTCAATAATTCTAAAGGAAGCCAAATAATAAACTTCTAATAAACGCC
ATAACTTAATATTACCTCTATTTGACCTTTCACAAGGATTTAGGTTCAAAAATAGCTC
AAAACACAGCATTACCACTTTAACAGCAGCTTAAAGTCAAATGGAAAACTTGGGGGTA
TATTCTTTGGAGGAATACTAGGCACCTGAAACAACATGTTCTGGNTGGTAGGCTCCCA
AAAAATTTAACCTGTGAAATTTTTGGCCTGCAAAAAAATCACATTTTAGGGGACCATA
TTTAAGTCTTTCAAAAAACCCGAATTTGGAGTCCAGGTCCGCCCGGGTTTTTAATTC
TAACCAACGCAGGGTTAGC
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Restriction Sites:

ECORI-NOT

ACCN:

NM_018268

Insert Size:

2770 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_018268.2 , NP_060738.2
RefSeq Size:	2608 bp
RefSeq ORF:	1380 bp
Locus ID:	55255
UniProt ID:	Q9HAD4
Cytogenetics:	5q13.3-q14.1
Domains:	WD40
Gene Summary:	Non-catalytic component of the C9orf72-SMCR8 complex, a complex that has guanine nucleotide exchange factor (GEF) activity and regulates autophagy (PubMed:27193190, PubMed:27103069, PubMed:27617292, PubMed:28195531). The C9orf72-SMCR8 complex promotes the exchange of GDP to GTP, converting inactive GDP-bound RAB8A and RAB39B into their active GTP-bound form, thereby promoting autophagosome maturation (PubMed:27103069). The C9orf72-SMCR8 complex also acts as a negative regulator of autophagy initiation by interacting with the ATG1/ULK1 kinase complex and inhibiting its protein kinase activity (PubMed:27103069, PubMed:27617292).[UniProtKB/Swiss-Prot Function]