

Product datasheet for **SC324019**

WDR41 (NM_018268) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	WDR41
Synonyms:	MSTP048
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_018268.2 GGAGGAGGCCGAGCCTGGGGCGGAGTTGGGCTGACTGGGGCTGGACGGGCAAGACGCC
GCCGCTGCCCGGATGTTGCGATGGCTGATCGGGGGAGGCCGAGAACCAGGAGGACTGGCC
GAGAAATCTCCTTTACAGACAATAGGTGAAGAACAACCCAGAATCCCTACACTGAACTG
CTAGTACTGAAGGCTCATCATGATATTGTACGATTTCTGGTACAGTTAGATGACTACAGA
TTTGATCTGCTGGTGATGATGGAATTGTAGTTGTGGAATGCCAGACAGGGGAAAAA
CTTTTAGAACTGAATGGACACACTCAAAGATAACAGCTATTATTACATTTCTTCCTTG
GAATCTTGTGAAGAGAAAAATCAACTCATCTTGACAGCCTCTGCTGATAGAACAGTTATT
GTGTGGGATGGTGATACTACCAGACAAGTTCAGAGAATATCATGCTTCCAGTCTACTGTA
AAGTGTTAACTGTTCTTCAGAGACTAGATGTTTGGCTTTCTGGTGGGAATGACCTGTGT
GTGTGGAACCGAAAATTAGATCTCCTGTGAAGACTAGCCACCTTTCTGATACAGGTATT
AGTGCTTTGGTTGAAATACCTAAGAACTGTGTTGTGGCAGCAGTTGGCAAAGAACTGATA
ATTTTCAGGTTGGTAGCACCCACAGAAGGATCACTAGAATGGGATATTCTTGAAGTTAAG
CGCCTCCTTGATCACCAGGATAATATTCTCTCATTGATTAATGTCAATGATTTGAGTTTT
GTCACCGGCTCCACGTCGGAGAGCTGATCATCTGGGATGCCCTGGACTGGACCATGCAG
GCCTATGAACGCAACTTCTGGGACCATCTCCACAACCTGGACACCAACAAGAAATAAAA
CTCTGTCAAAAATCAAATGACATTTCTATTTCATCATTTACATGTGATGAAGAGAATGTA
TTTGCTGCAGTTGGAAGGGGTTTATACGTGTATAGCCTTCAAATGAAGCGTGTGATTGCC
TGCCAGAAAACCTGCACATGACTCCAATGTCCTGCACGTTGCCAGACTTCCAAACAGGCAG
TTAATCTCATGCTCAGAAGATGGCAGTGTACGCATTTGGGAGTTAAGAGAAAAACAGCAG
CTTGACGTGAGCCTGTACCAACAGGTTTTTTTAAACATGTGGGGATTGGAAAGAGTCAGC
AAACAAGCCAGCCAACCTGTTAAAAAGCAGCAAGAAAATGCTACTTCATGTTCACTGGAG
CTTATTGGAGATTGATTGGACACTCATCATCTGTGGAGATGTTTCTATACTTTGAAGAT
CATGGACTAGTGACGTGCTCCGCTGATCATCTCATTATTTGTGAAAAATGGAGAGCGA
GAATCTGGATTGCGCAGTTTAAAGATTATTTCAAAAATTAGAGGAGAATGGTGACTTATAC
CTTGCTGTCTAGTTTAAAGAAATAAAAATACACATGCATGAACCTTGAACATCAAATATC
GGGTACTACTCTGAAAACCATTAATATATTGATCACTTAAATTGGTAATTTTTTTGTCA
GTCCATAAAATTCTACATGTTTAAATTTTTGTGGACCTACCAACCAGGAACATGTTGCT
TCTCAGGTCCTAGTATATCCTCCAAAGAATATACCACAAGTTTTTCCATTGACTTTGAG
CTGCTGTTGAAGTGGTGAGTGCTGTGTTTTGAGCTTATTTTGAACCTAGATCCTTGTA
AGGTACAAATAGAGGTAATAGTTAAGTTATGGCATTATTAGAAAGTTTATTATTTGGCT
TCCTTTAGAATTATTGTGAAGTTTAAAAATAGCCTTTCTCTGCAAATTTCTCTAGTCTT
TAGTAACTGTTAGTGTTCTATATAGCACAACTTGAATCTCTCAGCCAAAAAGGGAACA
CATATACTGTTAAGTATGGCAAGTTTTCTTTGGTACCAATTTGTTTAGATAATTTTAAA
AATGTTTTTTAGTTCTAGCTACTAAACCTGTATGAACTCAAATGGATAGGCATCTTG
AGGGTGTGTTTTCCAGTGTGAATTGGCTTGAAGAGCCATGGGCTAAATGGGTAAGTA
ACAACAACTGCCCCTCATGTACGCCAAGGATGAGCTCTAGATCATTGAGAGGCACAGTG
TTTCCGGAGTCAGGACTGCAGCTGAGCGCAACTGCCCATCTGACCACTGACTCAAATA
CGAACTGCTTGAGACAGACTTCTTTATGTAGTTCTTTGAGTGTCATTGAGACACTAT
AACCAGCCTTGTAACAATATGTTTTCTCTTTTGGTGCTAAAAATAAAAAATATTAGAAA
GTAAAAA
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Restriction Sites:

ECoRI-NOT

ACCN:

NM_018268

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
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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]