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Product datasheet for RC201693

WDR41 (NM_018268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR41 (NM_018268) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR41
Synonyms:	MSTP048
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC201693 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGCGATGGCTGATCGGGGGAGGCCGAGAACCGCAGGGACTGGCCGAGAAATCTCCTTTACAGACAA
TAGGTGAAGAACAAACCCAGAATCCCTACACTGAACTGCTAGTACTGAAGGCTCATCATGATATTGTACG
ATTTCTGGTACAGTTAGATGACTACAGATTTGCATCTGCTGGTGATGATGGAATTGTAGTTGTGTGGAAT
GCCCAGACAGGGGAAAAACTTTTAGAACTGAATGGACACACTCAAAAGATAACAGCTATTATTACATTTC
CTTCCTTGGAATCTTGTGAAGAGAAAAATCAACTCATCTTGACAGCCTCTGCTGATAGAACAGTTATTGT
GTGGGATGGTGATACTACCAGACAAGTTCAGAGAATATCATGCTTCCAGTCTACTGTAAAGTGTTTAACT
GTTCTTCAGAGACTAGATGTTTGGCTTTCTGGTGGGAATGACCTGTGTGTGTGGAACCGAAAATTAGATC
TCCTGTGTAAGACTAGCCACCTTTCTGATACAGGTATTAGTGCTTTGGTTGAAATACCTAAGAACTGTGT
TGTGGCAGCAGTTGGCAAAGAACTGATAATTTTCAGGTTGGTAGCACCCACAGAAGGATCACTAGAATGG
GATATTCTTGAAGTTAAGCGCCTCCTTGATCACCAGGATAATATTCTCTCATTGATTAATGTCAATGATT
TGAGTTTTGTCACCGGCTCCCACGTCGGAGAGCTGATCATCTGGGATGCCCTGGACTGGACCATGCAGGC
CTATGAACGCAACTTCTGGGACCCATCTCCACAACTGGACACCCAACAAGAAATAAAACTCTGTCAAAAA
TCAAATGACATTTCTATTCATCATTTCACATGTGATGAAGAGAATGTATTTGCTGCAGTTGGAAGGGGTT
TATACGTGTATAGCCTTCAAATGAAGCGTGTGATTGCCTGCCAGAAAACTGCACATGACTCCAATGTCCT
GCACGTTGCCAGACTTCCAAACAGGCAGTTAATCTCATGCTCAGAAGATGGCAGTGTACGCATTTGGGAG
TTAAGAGAAAAACAGCAGCTTGCAGCTGAGCCTGTACCAACAGGTTTTTTTAACATGTGGGGATTTGGAA
GAGTCAGCAAACAAGCCAGCCAACCTGTTAAAAAGCAGCAAGAAAATGCTACTTCATGTTCACTGGAGCT
TATTGGAGATTTGATTGGACACTCATCATCTGTGGAGATGTTTCTATACTTTGAAGATCATGGACTAGTG
ACGTGCTCCGCTGATCATCTCATTATTTTGTGGAAAAATGGAGAGCGAGAATCTGGATTGCGCAGTTTAA
GATTATTTCAAAAATTAGAGGAGAATGGTGACTTATACCTTGCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

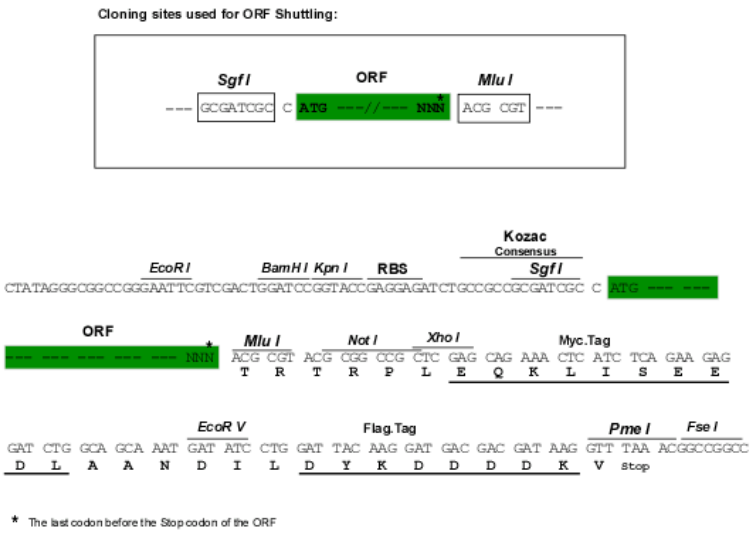
>RC201693 protein sequence
Red=Cloning site Green=Tags(s)

MLRWLIGGGREPQGLAEKSPLQTIGEEQTQNPYTELLVLKAHHDIVRFLVQLDDYRFASAGDDGIVVVWN
AQTGEKLLELNGHTQKITAIITFPSLESCEEKNQLILTASADRTVIVWDGDTTRQVQRISCFQSTVKCLT
VLQRLDVWLSGGNDLCVWNRKLDLLCKTSHLSDTGISALVEIPKNCVVAAVGKELIIFRLVAPTEGSLEW
DILEVKRLLDHQDNILSLINVNDLSFVTGSHVGELIIWDALDWTMQAYERNFWDPSPQLDTQQEIKLCQK
SNDISIHHFTCDEENVFAAVGRGLYVYSLQMKRVIACQKTAHDSNVLHVARLPNRQLISCSEDGSVRIWE
LREKQQLAAEPVPTGFFNMWGFGRVSKQASQPVKKQQENATSCSLELIGDLIGHSSSVEMFLYFEDHGLV
TCSADHLIILWKNGERESGLRSLRLFQKLEENGDLYLAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018268

ORF Size: 1377 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_018268.4

RefSeq Size: 2608 bp

RefSeq ORF: 1380 bp

Locus ID: 55255

UniProt ID: Q9HAD4

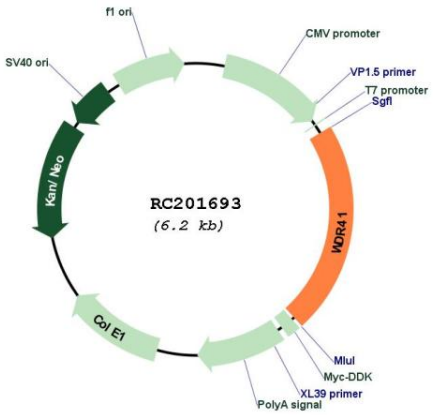
Cytogenetics: 5q13.3-q14.1

Domains: WD40

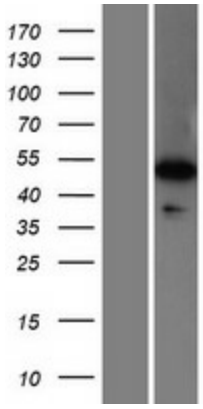
MW: 51.7 kDa

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]

Product images:



Circular map for RC201693



Western blot validation of overexpression lysate (Cat# [LY413179]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201693 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).