

Product datasheet for **RC205719**

WDR91 (NM_014149) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | WDR91 (NM_014149) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | WDR91 |
| Synonyms: | HSPC049; SORF-1; SORF1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC205719 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGGCCGTGGAGCGCACTGACGAGCTGGTCCGGGAGTACCTGCTCTCCGGGGTTACGCACA
 CACTGCGGCAGCTGGACGCCGAGATCAAGGCGGACAAGGAGAAGGGGTTCCGGGTGGATAAGATTGTGGA
 CCAGCTGCAGCAGTTAATGCAGGTGATGACTTGGCTGCCCTTCGGGATTATTGGAGCTACTTGGAGCGT
 CGGCTCTTCAGCCGCTTGGAGGATATATACAGACCCACAATCCACAAGCTGAAAACAGCCTGTTTCGAT
 TTTATCTTGTCTACACAATCCAGACAAACAGAAATGACAAGGCTCAGGAGTTCTTTGCAAAGCAGGCCAC
 GGAACCTCAGAACCAGGCTGAGTGAAGGATTGGTTTGTCTGCCCTTCTGCCATCCCCGGACACCAAC
 CCCACCTTTGCTACCTACTTTTCTCGACAGTGGGCTGACACCTTCATTGTGTCCCTGCACAACCTCTGA
 GCGTCTGTTTTCAGTGCATGCCAGTCCCTGTGATCCTGAACTTTGATGCGGAGTGTAGAGGACTAACCA
 GGTTCAGAAGAAAATGAAGTTCTGCGTCAGAAGCTTTTTGCATTGCAAGCTGAAATCCACCGACTGAAG
 AAAGAGGAGCAACAGCCAGAAGAGGAAGAGGCCTTGGTCCAACACAAAATTGCCTCCTTATGTCTCCAACA
 TGGACCGCTGGGGGACTCGGAACCTGCCATGGTGTGCAGCCAAAGGAATGCCTCCTCTCCCAGTACC
 TCGTGTGGGCTTCTGTCTCGCTGCTGCCCTCAGAGTAAGAAGAGCCCTCAAGTTGTGCGCTGCTCAG
 GGCCCTCCTCAACCTCAGAGCTCGGCCAAGAAAGAGTCTTCCGGTGGTCAAGGCACCAAGGGAAAGGACC
 CGACGTCGGGAGCCAAGGATGGGAAGAGCCTCCTCAGCGGGCTGGCCACTGGGGAGTCCGGTTGGTCACA
 GCACCGGCAGCGCGCCTGCAGGACCATGGCAAGGAGAGGAAGGAGCTTTTCTCCACAACCACTCCCAG
 TGTGCAGAGAAGAAACCAGAAGCCAGTGGCCCAGAGGCTGAGCCCTGCCAGAGCTCCACACGGACCCAG
 TGGAGCCACTGACTCGGCATCCTCGGCAGGCCCTGAGGGTGGAGGAGTCCGCCCCGAGCAGCCCTTAT
 TGTGCTGGGACAGGAGGAGTACGGGGAACACCCTCATCCATCATGCACTGCAGAGTGGACTGCTCTGGG
 AGGAGAGTCGCCAGCTTAGACGTAGATGGGGTCAACAAAGTGTGGTCTTCAACCCCATCATGCAGACCA
 AAGCATCTCCATTTCCAAATCACCGCTGCTGTCTTTGGAATGGGCCACCAAACGGGACAGACTGCTCTT
 GCTGGGACAGTGGTGTGGGAACAGTGCCTCTATGACACGGAAGCCAAGAAGAATCTCTGTGAAATCAAT
 ATCAACGACAACATGCCAGAATCCTGTCTTTCGCTGCAGCCCCAACGGGGCCTCTTTCGCTGTTCGG
 CAGCAGCTCCGAGCCTCACTTCCCAGGTGGACTTCTCAGCACCAGACATCGGCAGCAAGGGCATGAACCA
 GGTTCTGGCAGGCTGCTGCTGTGGGACACGAAAACCATGAAGCAGCAGCTCCAGTTCTCCCTGGATCCA
 GAACCCATTGCTATCAACTGTACAGCCTTCAATCACACGGGAACCTGCTGGTACAGGGGCAGCTGATG
 GCGTCATCCGGCTGTTTGACATGCAGCAGCATGAGTGCAGGATGAGCTGGAGGGCCCACTACGGGGAGGT
 CTAATCTGTGGAGTTCAGCTATGATGAGAACACCGTGTACAGCATCGGGCAGGACGGGAAGTTATCCAG
 TGGAAATCCACAAGAGTGGCCTCAAGGTATCCGAGTACAGCCTCCCCTCAGATGCCACGGGCCCTTTG
 TGCTGTCTGGATACAGCGGCTACAAGCAGGTTCAAGTCCCAGGGGCCGACTCTTCGCTTTTGACTCGGA
 GGGAAATTACATGCTGACATGTTCTGCCACAGGCGGCTCATCTACAAGCTGGGTGGCGATGAGAAGGTT
 CTGGAGAGCTGCTTGGCCTAGGTGGCCACCGAGCCCTGTGGTCAACCGTGGACTGGAGCACTGCCATGG
 ACTGTGGGACCTGCCTCACCGCCTCCATGGATGGCAAGATCAAGCTGACCACCCTCTGGCCATAAAGC
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205719 protein sequence
 Red=Cloning site Green=Tags(s)

MAEAVERTDELVREYLLFRGFTHTLRQLDAEIKADKEKGRVDKIVDQLQQLMQVYDLAALRDYWSYLER
 RLF SRLEDIYRPTIHKLKTSLFRFYLVYTIQTNRNDKAQEFFAKQATELQNAEWKDFVLPFLPSPTDN
 PTFATYFSRQWADTFIVSLHNFLSVLFQCMPPVILNFDACQRTNQVQEENEVLRQKLFALQAEIHRLK
 KEEQQPEEEALVQHKLPPYVSNMDRLGDESELAMVCSQRNASLSQSPRVGFLSSLLPQSKKSPSRLSPAQ
 GPPQPQSSAKKESFGGQGTGKGDPTSGAKDGKSLLSGLATGESGWSQHRQRRLQDHGKERKELFSTTSQ
 CAEKKPEASGPEAEPCELHTEPVEPLTRASSAGPEGGVRPEQPFIVLGQEEYGEHSSIMHCRVDCSG
 RRVASLDVDGVIKVSFNPIMQTKASSISKSPLLSLEWATKRDRLLLLGSGVGTVRLYDTEAKKNLCEIN
 INDNMPRILSLACSPNGASFVCSAAAPSLTSQVDF SAPDIGSKGMNQVGRLLLLWDTKTMKQQLQFSLDP
 EPIAINCTAFNHNGNLLVTGAADGVIIRLFDMQQHECAMSWRAHYGEVYSVEFSYDENTVYSIGEDGKFIQ
 WNIHKSGLVSEYSLPSDATGPFVLSGYSYKQVQVPRGRLFAFDSEGNMILTCSATGGVIYKLGDEK
 LESCLSLGGHRAPVVTVDWSTAMDCGTCLTASMDGKIKLTTLLAHKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6574_f06.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_014149

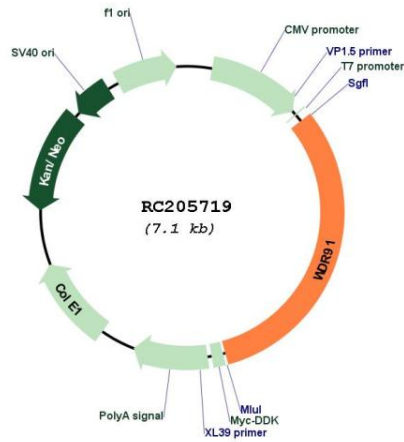
ORF Size: 2241 bp

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](#)

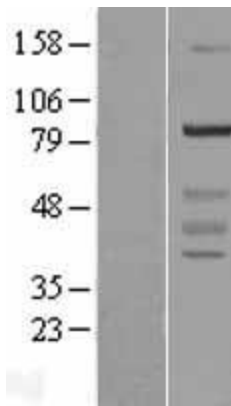
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_014149.4 |
| RefSeq Size: | 4619 bp |
| RefSeq ORF: | 2244 bp |
| Locus ID: | 29062 |
| UniProt ID: | A4D1P6 |
| Cytogenetics: | 7q33 |
| Domains: | WD40 |
| MW: | 83.3 kDa |
| Gene Summary: | Functions as a negative regulator of the PI3 kinase/PI3K activity associated with endosomal membranes via BECN1, a core subunit of the PI3K complex. By modifying the phosphatidylinositol 3-phosphate/PtdInsP3 content of endosomal membranes may regulate endosome fusion, recycling, sorting and early to late endosome transport (PubMed:26783301). It is for instance, required for the delivery of cargos like BST2/tetherin from early to late endosome and thereby participates indirectly to their degradation by the lysosome (PubMed:27126989). May play a role in meiosis (By similarity).[UniProtKB/Swiss-Prot Function] |

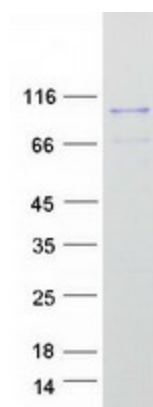
Product images:



Circular map for RC205719



Western blot validation of overexpression lysate (Cat# [LY415476]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205719 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WDR91 protein (Cat# [TP305719]). The protein was produced from HEK293T cells transfected with WDR91 cDNA clone (Cat# RC205719) using MegaTran 2.0 (Cat# [TT210002]).