

## Product datasheet for **RC206661**

### WDR49 (NM\_178824) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WDR49 (NM_178824) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR49
Synonyms:	FLJ33620
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC206661 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTTGGAGAGAGAAATCAAAAAAGCGTCTTAATATGACATCCTTCAACATTGCCAGGGCATTATG  
 CTTTTGATTACTCTCGGCTCAATTTAATTGCAACTGCTGGCATTAAACAATAAAGTTTGCCTTTGGAA  
 TCCTATGTTGTCTCTAAACCAGTGGGTGTCTTTGGGGCCACTCAGCCAGTGAATAGCCGTCCAATTC  
 TTTGTGAAAGAAAAACAATTTTCAGCTTCTCCAAGGATAAAGTTTTGAGACTCTGGGATATTCAACACC  
 AGCTGTCCATCCAGAGGATAGCTTGTCTTTCCCAAAAGTCAGGACTTCAGATGTCTTCCACTTTGA  
 TGAAGCCCATGGACGACTTTTCATCTCGTTTAATAACCAGCTAGCATTGTTGGCAATGAAAAGTGAAGCC  
 AGCAAGAGGGTGAAGCCATGAGAAAGCAGTCACTTGTGTTCTTACAATTCTATCTTGAAGCAGGTAA  
 TCAGCTCTGATACAGGGTCTACTGTTTCTTCTGGATGATAGACTGGGCAGAAAATCAACAGTTTAC  
 TGTTGCCACGGCAACGCAGAAAATCAGCACTATGGCCCTTGATGCAAATGAGACTCGGCTTTTGACTGGC  
 AGCACAGATGGGACTGTAAGATATGGGACTTCAATGGATATTGTCACCATACACTAAATGTTGGGCAAG  
 ATGGAGCTGTGGATATTTCAAAAATCCTCATTCTTAAGAAGAAAATACTGGTTACAGGCTGGGAGAGGGC  
 TATTACTGTGTTTCGACCCAAAACCTTCAATCAATTTTTTCATCCAGCCTGAAAGATGAAAAGGAGGTATA  
 CAGCACCATGATGACATCTTGTGTGCTGCGTTTTTACCTCCACAAAACCTTGTACGGGGAGTTATGATG  
 GAGAAATTGTTCTATGGAACAATAGCACAGAGAATGCTCACCATGTTCTTACCCTGATTACCAGAGGTT  
 GCTAAAGTCAAAATTAGATACAAAACCTCAAAAACCTTCTCAGTGTGGGAGAAGCCAACCTCCCACCCC  
 ATGGCAGACCATTCTACCACGGGAGTCCGCAACTTTGAGATTGACTGAGGGCAAAAATGCTGTTATGA  
 GACTTTGCTTTCTTAAAGCAAGAAAAAACACTGCAGTGACAGGAGGAGCTAACCTGGTATCATGTGGAGG  
 ATCTGGTTATGTCAGATTTTGGATATATAAGAAGCAACTTCTGGCTGAATTTTTGGCTCATAGTGGGA  
 GTTGGATCGATTATTATGTCTACTGATAAGATGAATCGATACCTTACCACAGGAGATCTTGTGGATGGT  
 TGAAAATCTGGAATATAGAGGAGTACTGTCTTAACTCCAGTAAGAACAATAACCAAGGCCCAACTCT  
 GATAAGATCATTCCAACCTCATGAGGACCGAATAAGTTCCTTAGAGATGTGTGAGCCAGGTGGTCAGTTA  
 CTGATTATCTCCTCTGCAGACTGCAGTATTTGTGACTGGTGTCTGCAATGCTCCTGTTTGGATCT  
 TTGGTCAGGCAAAGCACTGGCATATTGAAAACCTGCTTTTCTTCTAAAAGAGATACTAATTTAGTGA  
 AAGTGAGATTCAAAAGGAAATTTCTTTATTTTCTAAGGAGGAATCTGTTTAGACCCAACAGAACATTCT  
 CTACTTAATAAGAAAAACAAGATGACTCAACATACAATGTCAGACCATCAGAAGATATAAATTTAGATA  
 TAAAATATAAGGAAAGAAGTACCTGCATGAAAGAAACACAAAAACCTTATTATGGTGAAGTTATAAAAA  
 ATCATTAGTACATTTAGGTCATTAACATTGGAGCCCTGGAAGAGCTGCCTGAAGTGAATAAACCTGCT  
 TTCTTCTAGACCCTGAGAAACTTTAGGAAAGAACCAGAGGAAGAGCGTCCCCAAATCTGGAGGCC  
 CGTCACTTTTTAAACTTTGAAAGCTGTATTTGATGAGAAAACTGTTTCCAAGGAAATCTGCATCA  
 TGAACGAAAAGCCAAGCAATTATGCCAAGAAAAAAGTTGTGAAGTGAAGAAAAATAAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206661 protein sequence  
Red=Cloning site Green=Tags(s)

MAWREKSKKRLNMTSFNIAQGIHAFDYHSRLNLIATAGINNKVCLWNPYVVSQPVGLWGHSASVIAVQF  
 FVERKQLFSFSKDKVLRRLWDIQHLSIQRIACSFPKSQDFRCLFHFDEAHGRLFISFNNQLALLAMKSEA  
 SKRVKSHEKAVTCVLYNSILKQVISSDTGSTVSFWMIDTGQKIKQFTGCHGNAEISTMALDANETRLLTG  
 STDGTVKIWDFNGYCHHTLNVGQDGAVDISQILILKKKILVTGWERAITVFRPQNFNQFFIQPEEWKGGI  
 QHDDILCAAFLLPPQTLVTGSYDGEIVLWNNSTENAHHVLHPDYQRLLKSKLDTKPQKLLSAGRSQPSHP  
 MADHSTTGVRNFEIDTEGKNAVMRLCFLKARKNTAVTGGANLVSCGGSGYVRFWDIYKKQLLAEFLAHSG  
 VGSII MSTDKMNRYLTTGDLDGWLKIWNIEEYCLNSSKNKITKAPT LIRSFQPHEDRISLEMCEPGQL  
 LISSSADCSICVTGVCNAPVWIFGQAKHWHIENCLFLPKRDTNLVESEIQKEISLFSKEESCLDPTEHS  
 LLNKKNKDDSTYNVRPSEDINLDIKYKERSTCMKETQKPYGGEVKKSFSTFRSLNIGALEELPEVNKPA  
 FLLDPEKYFRKEPEEERQILEAPSLFKTLKAVFDEKNLFPKEILHHERKAKQLCQEKSCVEVKNNK

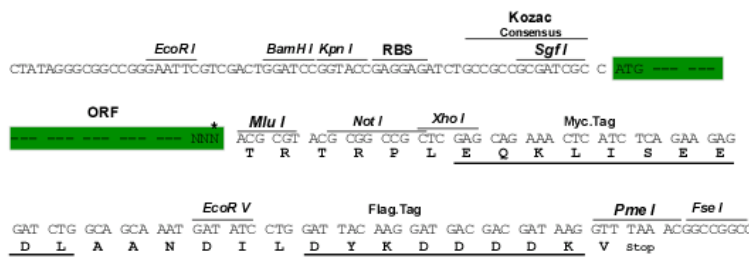
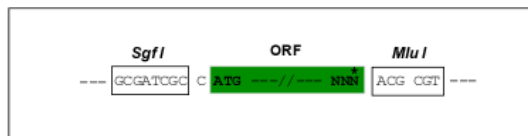
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6521\\_g12.zip](https://cdn.origene.com/chromatograms/mk6521_g12.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_178824

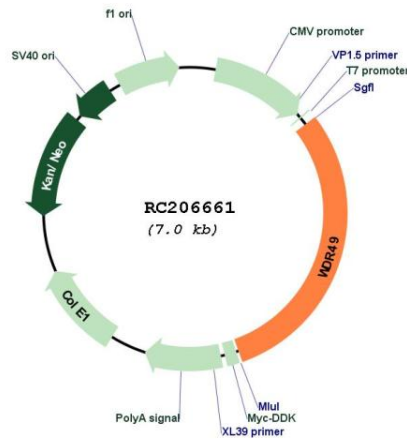
ORF Size: 2091 bp

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](#)

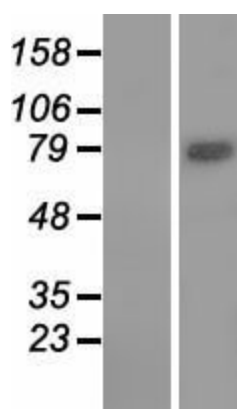
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_178824.3</a> , <a href="#">NP_849146.1</a>
<b>RefSeq Size:</b>	2672 bp
<b>RefSeq ORF:</b>	2094 bp
<b>Locus ID:</b>	151790
<b>UniProt ID:</b>	<a href="#">Q8IV35</a>
<b>Cytogenetics:</b>	3q26.1
<b>MW:</b>	79.3 kDa
<b>Gene Summary:</b>	This gene encodes a member of the WD repeat protein family with nine WD repeats. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2017]

## Product images:



Circular map for RC206661



Western blot validation of overexpression lysate (Cat# [LY405842]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206661 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).