

## Product datasheet for **RC224387**

### WDR31 (NM\_145241) Human Tagged ORF Clone

#### Product data:

|                    |                        |
|--------------------|------------------------|
| Product Type:      | Expression Plasmids    |
| Tag:               | Myc-DDK                |
| Symbol:            | WDR31                  |
| Mammalian Cell     | Neomycin               |
| Selection:         |                        |
| Vector:            | pCMV6-Entry (PSI00001) |
| E. coli Selection: | Kanamycin (25 ug/mL)   |

**ORF Nucleotide Sequence:** >RC224387 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGC**

ATGCTGCTACTCAGGTGCCAACTGAAACAAGCTCCTCCACAGAAGGTTTCGTTAGGTTTTGTGTCGTGA  
TGGGAAACAGCAAAGCAAACCTCAACACAGCACTTATAAATACGGGCTGATGAAATTATAGAAGAGAG  
AATTCAAACCTAAAGCTTTTCAAGAGTATAGCCAGCTCACATGGATACCGTCTCTGTCGTGGCTGCTTTG  
AACTCAGACCTTTGTGCTCTGGAGGGAAAGATAAGACAGTTGTGGCCTATAATTGGAAACTGGAATG  
TGGTGAAGAGTTCAAAGGACATGAACATGAGATCACCAAGGTAGCCTGTATTCCAAATCCAGCCAGTT  
CTTCAGTGCCTCTCGTGACAGGATGGTCATGATGTGGACTTGCACGGTTCCTCACACCAAGGCAGCAA  
TTGTGTGGCCATGCCATGGTGGTCACCGGATTGGCTGTGAGTCCAGACTCATCACAGCTGTGCACTGGCT  
CTCGGGACAACACCCTGCTTCTGTGGGATGTGGTGACAGGACAGAGTGTGGAAGAGCATCTGTCTCCAG  
GAACGTGGTCACTCACCTGTGCTGGGTCCCAGAGAACCATACATACTACAGACCTCTGAAGATAAAACC  
CTCAGATTATGGGACAGTCGGGGGCTGCAGGTAGCTCATATGTTTCCTGCAAAGCAGCACATTCCAGACCT  
ACTGTGAAGTCAGTGTGGATGGACACAAGTGTATCTCTGCAGCAATGGCTTTGGAGGAGAAGGCTGTGA  
AGCCACGTTGTGGACCTAAGACAGACTCGAAACAGAAATATGTGAGTATAAGGGGCATTTCAGACTGTC  
GCATCTCGCTCTTTCTACCAAGAGCATTGGCCTTGATGCCTTTAATTGCTACCTCATCACATGATTGCA  
AGGTGAAGATTTGAACCAAGATACTGGAGCCTGCCTTTTACCTTGTCTCTGGATGGATCAGGACCCTT  
GACTCTCTGGCTGTTGGTGACGCCATCTCCTTATTGTGTGCAAGTTTTAACAGAGGAATTCATTACTC  
AGAATGGACCACAGCCAAGGGCTGGAAGTGCAGGAAGTGGCAGCATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:**

>RC224387 protein sequence  
 Red=Cloning site Green=Tags(s)

MLLLRCQLKQAPPQKVSFRFCVVMGKQSKLKHSTYKYPDEIIIEERIQTAKFQEYSPAHTMTVSVAAL  
 NSDLCVSGGKDKTVVAYNWKTNVVKRFKGHEITKVACIPKSSQFFSASRDRMVMWDLHGSSQPRQQ  
 LCGHAMVVTGLAVSPDSSQLCTGSRDNTLLLWDVVTGQSVRASVSRNVVTHLCWVPREPYILQTSDEKT  
 LRLWDSRGLQVAHMFPAKQHIQTYCEVSVDGHKCISCSNGFGGEGCEATLWDLRQTRNRICEYKGFQTV  
 ASCVFLPRALALMPLIATSSHCKVKIWNQDTGACFLTLSDGSGPLTSLAVGDAISLLCASFNRGHLL  
 RMDHSQGLELQEVAAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

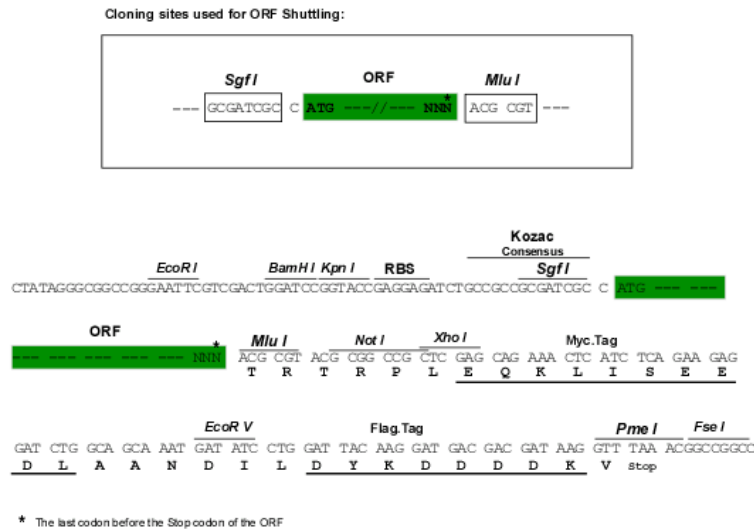
**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6431\\_f01.zip](https://cdn.origene.com/chromatograms/mk6431_f01.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:**

NM\_145241

**ORF Size:**

1098 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:**

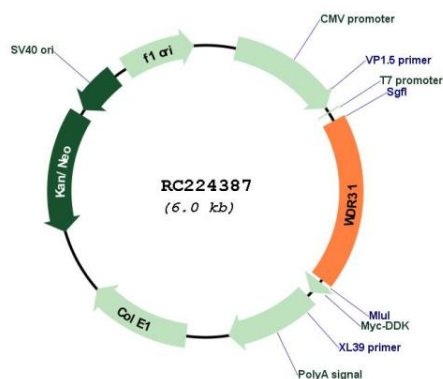
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:**

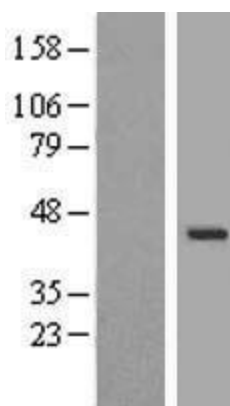
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RefSeq:</b>                | <u>NM_145241.5</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq Size:</b>           | 2505 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq ORF:</b>            | 1101 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Locus ID:</b>              | 114987                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID:</b>            | <u>Q8NA23</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Cytogenetics:</b>          | 9q32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Domains:</b>               | WD40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MW:</b>                    | 40.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-aspartate (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. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008]</p> |

## Product images:



Circular map for RC224387



Western blot validation of overexpression lysate (Cat# [LY407976]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224387 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).