

## Product datasheet for **RC207339**

### WDR75 (NM\_032168) Human Tagged ORF Clone

#### Product data:

|                           |                        |
|---------------------------|------------------------|
| Product Type:             | Expression Plasmids    |
| Tag:                      | Myc-DDK                |
| Symbol:                   | WDR75                  |
| Synonyms:                 | NET16; UTP17           |
| Mammalian Cell Selection: | Neomycin               |
| Vector:                   | pCMV6-Entry (PS100001) |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |



ORF Nucleotide Sequence: >RC207339 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGTGGAGGAGGAGAACATCCGCGTGGTTCTGTTGGCGGCAGCGAGTTGAACTTTAGGAGAGCTGTGT  
 TCTCTGCAGATTCTAAGTATATCTTCTGTGCTCTGGAGACTTTGTTAAAGTTTACAGCACAGTTACAGA  
 AGAGTGTGTACACATACTGCATGGACACAGAAATCTGGTACTGGAATCCAGCTTAACCCCAACAACCAT  
 CTACAGCTGTATTCTTGTCCCTTGATGGCACAATTAAGTGTGGGACTATATAGATGGCATCTTAATAA  
 AGACTTTCATAGTTGGATGTAACCTTCATGCCCTCTTACTCTTGCCCAAGCTGAGGATTCTGTCTTTGT  
 TATAGTGAATAAAGAAAAACAGATATATTTCACTGGTTTCAGTGAACTGCCAAATCCTCAAGCCAG  
 GAAGTAGAAGCCAAGGAGCTGTCTTTGTTTGGATTACATAAACAGTCACCAAGTGCATTGCCTTTG  
 GAAACGAGGGAGTATATGTTGCTGCAGTACGGGAATTTACTTGTCTGTTATTTTTTCAAAAAGAAAAC  
 AACATCAAGGTTTACTTTATCATCATCAAGAAATAAGAAGCATGCTAAAAACAATTTTACGTGTGTAGCA  
 TGTCAACCAACGGAAGACTGCATCGCATCTGGTCACATGGATGGCAAAATTCGTCTTTGGAGGAATTTTT  
 ATGATGATAAGAAATATACGTACACATGTTTACATTGGCACCATGATATGGTTATGGATTTGGCTTTTTT  
 AGTGACAGGCACCACTGTCTGAGTGGCGGTCTGAATCTGTACTTGTAGAGTGGCGCATGCAACAGAG  
 AAGAATAAGGAGTTTCTCCGCGTTTAGGAGCTACTATTGAACATATCTCAGTCTCGCTGCAGGAGATT  
 TATTCTGCACCTTCTCACTCTGATAATAAGATAATAATTATTCACCGAAACCTTGAAGCATCCGCAGTAAT  
 TCAAGGCCCTAGTGAAGATAGGAGTATCTTCACTGGTTTGATGATTGATCCAAGAACTAAAGCTTTGGTT  
 TTGAATGGAACCTGGCCACCTGCAGTTTATTCTCTCCAGAGTGATAACAGTTATACAATTTAGATA  
 TTATACAGCAAGAATATATTAATGATTATGGTCTGATCCAAATTGAACTAACAAAGGCTGCATTTGGCTG  
 CTTTGGTAAGTGGCTTGCAACAGTGGAAACAGCGCAAGAAAAGGAACTGAGCTTGAATTGCAAAATGAAA  
 CTGTGGATGTATAATAAGAAAAACAAAGGTTTATTCTTAACACTAAAAATTAACATGCCACACGAAGACT  
 GCATTACAGCTCTCTGTTTCTGTAATGCAGAAAAATCTGAACAGCCACCTTGGTTACAGCTAGCAAAGA  
 TGGTTACTTCAAAGTATGGATATTAACAGATGACTCTGACATATACAAAAAGCTGTTGGCTGGACCTGT  
 GACTTTGTTGGTAGTTATCACAAGTATCAAGCAACTAACTGTTGTTTCTCCGAAGATGGTTCTTTACTAG  
 CAGTTAGTTTTGAGGAAATAGTCACAATATGGGATTCTGTAACATGGGAACTTAAATGTACATTTTGCCA  
 ACGAGCTGGGAAATAAGGCACCTTTGCTTTGGGAGATTGACGTGTTCAAAGTATCTACTTGGTGCTACT  
 GAAAAATGGCATTCTTTGCTGTTGGAATCTGCTGAGCTGTGCATTGGAGTGAATGCAAAATTAATGTTA  
 GAGTTATGGAACCCGATCCTAATTCAGAGAATATTGCTGCAATCTCTCAGTCTTCAGTGGGTTACAGACTT  
 GTTTGTATTTAAACCTAGTGAGCCAAGGCCATTGTATATTCAAAAGGGTATCTCCAGAGAGAAAGTCCAG  
 TGGGGAGTGTGTTCCACGAGATGTCCTGAATCCTTCACCTCAGAAGCTTACCAGTGGCTAAATAGAT  
 CCCAGTTTTACTTCTTAACAAAATCACAGAGTTTATTGACATTAGTACAAAGTCTCCAGAAGAAAACT  
 CACACCAACAAGCAACAGCTGCTAGCAGAAGAAAGTCTCCACAACCCCATTTTATTTTATTTGGA  
 AAACACAGGCAACAGCAGGATGAAAACTAAACGAACTTTAGAGAATGAGCTGGTACAACCTACCCTTAA  
 CAGAAAACATACCCGCAATTAGTGAGCTTCTTCACACTCCAGCCCATGCTGCTGCTGCTTTCT  
 GTGCTCCATGTTTGTAAATTCATTGCTGCTGTCTAAAGAGACTAAGAGTCTAAGGAAATTCCTGAAGAT  
 GTAGATATGGAAGAAGAAAAAGAAAGTGAAGATTGAGATGAAGAAAATGATTTTACCAGAAAAAGTCCAGG  
 ATACAAGTAACACAGGTTTAGGAGAAGACATTATACATCAGTTGTCAAAATCTGAAGAAAAAGAACTGAG  
 AAAATTTAGGAAATAGACTACAGCTGGATAGCTGCCCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC207339 protein sequence  
 Red=Cloning site Green=Tags(s)

MVEEENIRVVRGGSSELNFRRAVFSADSKYIFCVSGDFVKVYSTVTEECVHILHGHRLVTGIQLNPNNH  
 LQLYSCSLDGTIKLWDYIDGILIKTFIVGCKLHALFTLAQAEDSVFVIVNKEKPDIFQLVSVKLPKSSSQ  
 EVEAKELSFVLDYINQSPKCIAFGNEGYYAAVREFYLSVYFFKKKTTSRFTLSSSRNKKHAKNNFTCVA  
 CHPTEDCIASGHMDGKIRLWRNFYDDKKYTYTCLHWHHDMVMDLAFSVTGTSLSSGGRESVLVEWRDATE  
 KNKEFLPRLGATIEHISVSPAGDLFCTSHSDNKIIIIHRNLEASAVIQGLVKDRSIFTGLMIDPRTKALV  
 LNKPGHLQFYSLQSDKQLYNLDIIQQEYINDYGLIQIELTKAAFSGCFGNWLATVEQRQEKETELELQMK  
 LWMYNKKTQGFILNTKINMPHEDCITALCFCNAEKSEQPTLVASKDGYFKVWILTDDSDIYKKAAGWTC  
 DFGVGSYHKYQATNCCFSEDGSLLAVSFEEIVTIWDSVTWELKCTFCQRAGKIRHLFCGRLTCSKYLLGAT  
 ENGILCCWNLLSCALEWNAKLNVRVMEPDNPSENIAAISQSSVGSDFVFKPSEPRPLYIQKGISREKVQ  
 WGVFVPRDVPESFTSEAYQWLNRSQFYFLTKSQSLLTFSTKSPEEKLTPTSKQLLAEEESLPTTFYFILG  
 KHRQQQDEKLNETLENELVQLPLTENIPAISELLHTPAHVLPSAAFLCSMFVNSLLL SKETKSAKEIPED  
 VDMEEKESEDSDEENDFTEKVQDTSNTGLGEDIHQLSKSEEKELRKFRKIDYSWIAAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

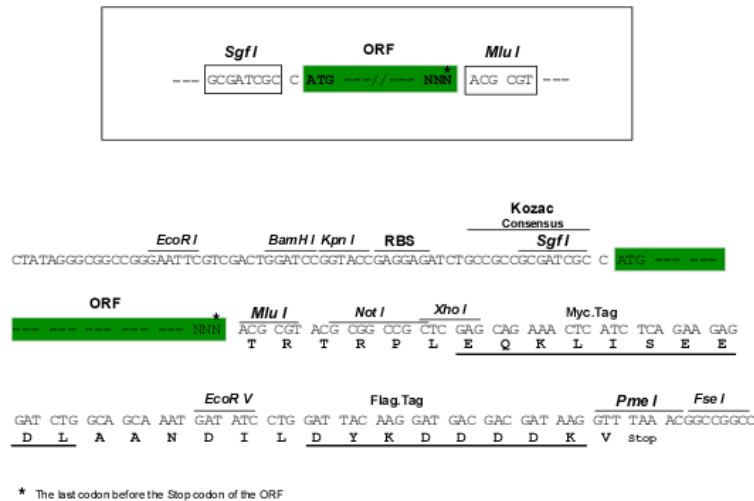
[https://cdn.origene.com/chromatograms/mk6514\\_h03.zip](https://cdn.origene.com/chromatograms/mk6514_h03.zip)

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM\_032168

ORF Size: 2490 bp

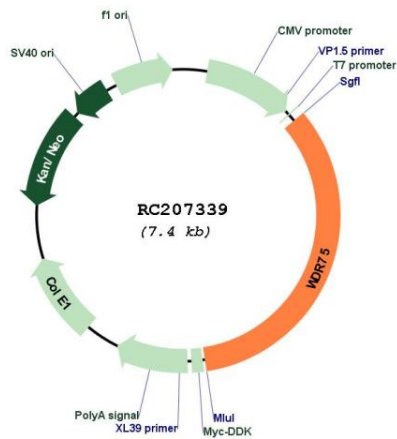
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

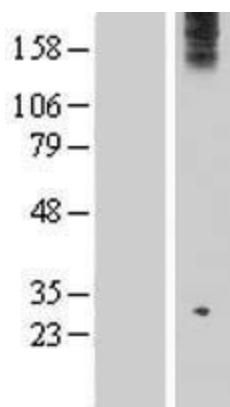
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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_032168.1, NP_115544.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 2777 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2493 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 84128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>Q8IWA0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 2q32.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MW:</b>                    | 94.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | Ribosome biogenesis factor. Involved in nucleolar processing of pre-18S ribosomal RNA. Required for optimal pre-ribosomal RNA transcription by RNA polymerase I.[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                         |

**Product images:**



Circular map for RC207339



Western blot validation of overexpression lysate (Cat# [LY410296]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207339 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).