

## Product datasheet for **MR204616**

### Wdr78 (BC034130) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr78 (BC034130) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wdr78
Synonyms:	MGC31722, MGC38950
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204616 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACATAGAAAATGTAATTCTGGCTAAAGTTCAAGAGGATGAAGAAGACAACCTCAGAGGCAATATTAA  
AGTCTGATAAGCTTCATCAAGACTTATTTTACATGGAAAGGGTTTTAATGGAAAATGTGTTTCAGCCGAA  
GCTTGACGCTACCGTCAACTCCCTGTTTATAAAGAACACGAACCTGAAGAGCCTGAAGAACTTTGCAA  
GTGGAAAATCTTAAGGTAGCAGAGGACGAGCCGAAGAAGGAAGATGAAGAAGAAGTGAAATGGAAGTAG  
AGCTAGAGATAGCTACGGAACAGTCAACAATACCGGCTAATTTGGAACGGCTCTGGTCTTCTCCTGTGA  
CTTAACGAAAGGCCTCAACGTGAGCAGCCTTTCCTGGAATAAAGCAAACCCATGGCCAGAGCGTATTTAT  
CAGAGTTCATATGGAGTTACTTCTGTGGACTTTTCAAACAGCTCACCTAATCTGCTAGCAGTTGGCTACC  
ACAATGGCACCGTTGCGATTTACAATGTGCAGAGCAGCCACAACATTCAGTTCTGGACAGTAGTGAATC  
ACCTCAAAAACATTTGGGACCTGTTTGGCAAGTGCAGTGGATAGAGCAAGACAGAGGAACTACTGGGGAT  
GACAAGAGAGAAAATCTTGGTGTCCATATCAGCCGATGGAAGGATCTCAAGTGGATCATCCGCAAAGGAC  
TGGATTGTCATGATTTGATGCGACTGAAGCGAACCCTGCGACAGGCGGCAAGAAGGGAGGGGAAAAGGA  
GAAGAAGGGCGAGGCCTTGATATCCCGACAGGCTCCGGGGATGTGCTTTGCTTTTCAACCAAGGACACG  
AACATCTATCTGGCTGGTACAGAAGAAGCCTTATTCACAAGTGTCTTGTTCATACAATGAGCAATACC  
TAGAGACCTATAGAGGACATAAGTTTGGACCCTCTGATCGTGAATGTTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204616 protein sequence  
Red=Cloning site Green=Tags(s)

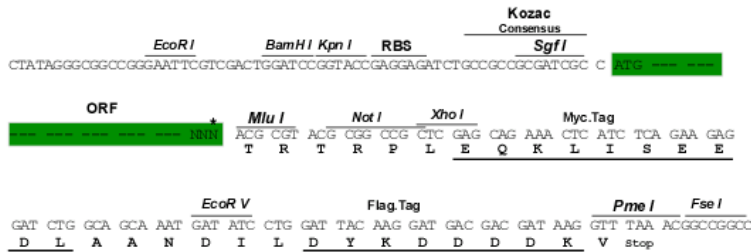
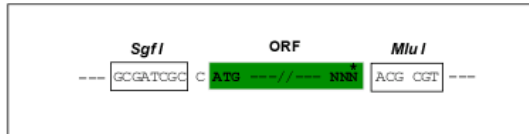
MDIENVILAKVQEDEEDNSEAILKSDKLHQDLFYMERVL MENVFQPKLAAYRQLPVYKEHEPEEPEETLQ  
 VENLKVAEDEPKKEDDEEVEMELELEIATEQSTIPANLERLWSFSCDLTKGLNVSSLWNKANPWPERIY  
 QSSYGVTSVDFSNSSPNLLAVGYHNGTVAIYNVQSSHNIPVLDSSSESPQKHLGPVWQVQWIEQDRGTTGD  
 DKREILVSI SADGRISKWIIRKGLDCHDLMLRKRRTTATGGKKGGEKEKKGALISRQAPGMCFAFHPKDT  
 NIYLAGTEEGLIHKCSCSYNEQYLETYRGHKFGPSPDRECC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** BC034130

**ORF Size:** 960 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.

**RefSeq:** [BC034130](#), [AAH34130](#)

**RefSeq Size:** 2560 bp

**RefSeq ORF:** 962 bp

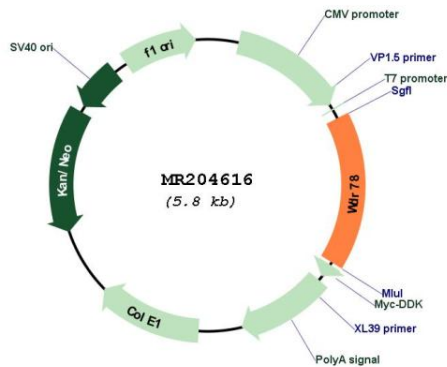
**Locus ID:** 242584

**Cytogenetics:** 4 C6

**MW:** 36.4 kDa

**Gene Summary:** Plays a critical role in the assembly of axonemal dynein complex, thereby playing a role in ciliary motility.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204616