

## Product datasheet for MR205991

### Wdr74 (NM\_134139) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wdr74 (NM\_134139) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Wdr74  
**Synonyms:** 5730436H21Rik; AA407588  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR205991 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGACTGCCTCGGCTCGCTGGAACCATGTGTGGTGGCGACTGAGACCGGCATCCTGAAAGGGTGA  
 ACCTTCAGCGGAAACATGCGGCAAAATTTACACCGTCCGGACAGCCGCGGGAGGAGGCAGTGAATGC  
 TCTGTGCTGGGCGACTGGCGGCGAGACCAATCTTGGTGGGCTGTGCGGACAGAACCGTGAGGTACTTT  
 AATGCTGAGGAGGTACATTCCTGAGCCAGAGATACTGCCAGGCGGGGAAGGCACGTTCCGAGGTCTCG  
 CCCAGGCGGATGGCACCCTTATCACATGTGTGGATTCTGGGATCCTCAGAGTCTGGTGTGAAAATGACAA  
 AGAGGCGTCTCTGACCCACTCTTGAAGTGAAGTGGTCTGGGGTGTGTAGGATGCGCCAAGATCCC  
 ACACATACACATGTGGTTGCCACATGTGGGAAAGAAAATGCTTTGAAAGTATGGGACCTACAGGGTCTG  
 AGGAGCCTGTATTAGGGCCAAAATGTGCGGAATGATTGGCTTGATCTCCGAGTTCCTATTTGGGACCA  
 AGATACACAGTTCCTCCCTGGGTCACAGAACTTGTACATGCACAGGATACCACAGGTCCGTGTCTAT  
 GATCCAGTCTCCCCAGCGCGGCCAGTCTAGAGGCCACCTATGGAGAGTACCCACTGACAGCTATGA  
 CCCTTACTCCTGAGGGCAATCCGTCATCGTAGGGAACACTCATGGGAGCTGGCAGAAATGATTTTCG  
 GCAAGGGCGTCTACTGGGCTGTCTGAAGGGCTTGCAGGTAGTGTCTGGGCTGCAGTGTACCCCTTCA  
 AAGCCCCTATTAGCCTCATGTGGCTTGGACAGAGTCTTGAGGATACACAGGATCCGCAATCCAGTGGGC  
 TAGAGCATAAGGTTTATCTCAAGTCTCAACTGAACTGCCTTCTCCTGTGAGGCGGGATAACTGGGAGGA  
 TGAGCCCCAAGAACCTCAAGAGCCCAACCAAGTACCCTCAGAAGACACAGAGACAGATGAACTTTGGGCC  
 TCTTTGGAGGCGCTGCAAGCGGAAGCTCCAGATTTGGACCAGACACAAGGTGCTCTCCAAGAAGGA  
 AGAAAAAGAAGCGGCCTGGATCCACCAGTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205991 protein sequence  
 Red=Cloning site Green=Tags(s)

MATASARWNHVWVGTETGILKGVNLQRKHAANFTPSGQPRREEAVNALCWGTGGETQILVGCADRTVRYF  
 NAEEGTFLSQRYCPGGEGTFRGLAQADGLITCVDSGILRVWCENDKEASSDPLELKVGPVCRMRQDP  
 THTHVVATCGKENALKVWDLQSGEEPVFRANKVRNDWDLRVPIWDQDTQFLPGSQKLVCTCTGYHQVRVY  
 DPVSPQRRPVLEATYGEYPLTAMTLTPEGNSVIVGNTHGQLAEIDFRQGRLLGCLKGLAGSVRGLQCHPS  
 KPLLASCGLDRVLRIRHRINPRGLEHKVYLKSQLNCLLLSGRDNWEDEPQEPQEPNQVPS EDTTETDELWA  
 SLEAAAKRKLPLDQTQ GALQRRKKKKRPGSTSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_134139

**ORF Size:** 1155 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:** [NM\\_134139.1](#), [NP\\_598900.1](#)

**RefSeq Size:** 1220 bp

**RefSeq ORF:** 1155 bp

**Locus ID:** 107071

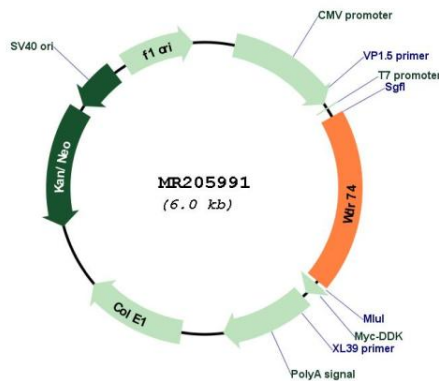
**UniProt ID:** [Q8VCG3](#)

**Cytogenetics:** 19 A

**MW:** 42.6 kDa

**Gene Summary:** Regulatory protein of the MTREX-exosome complex involved in the synthesis of the 60S ribosomal subunit. Participates in an early cleavage of the pre-rRNA processing pathway in cooperation with NVL (By similarity). Required for blastocyst formation, is necessary for RNA transcription, processing and/or stability during preimplantation development (PubMed:21799883).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205991