

## Product datasheet for MR206644

### Wdr34 (NM\_001008498) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr34 (NM_001008498) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wdr34
Synonyms:	3200002I06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206644 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTCATCCGGGAGCTGAACAACAACCTGGCAGAGTCATGCCTTCGATGGCTATGAGGTGAAGTGGACTG  
AGCAGCAGCAGACGGTGTCTGTCTGCACACCCTGGTCTACCCCTAGCCCAAGGGCAGGGTCTGCATGT  
GACCGGCATTTCTGGAAGTCCGACAGGCTCTGTCTGGCCTGTGCCTATGGTCGGCTAGATGATGGAGAC  
TGGAGTACACTCAAGTCTACGTGTACTTGGAACTGGACCGCAAGGCTGAATCCCAGCAGCCAT  
CAGTAGTGGTGGAGGTGCCGAGTGTGCATGTGCCTGGCCTTTCATCCCACACAGCCCTCCCACATTGC  
CGGGGGCTGTATAGCGGGGAAGTGTGGTGTGGGACATGAGCCGACCTGAGGACCCACTGCTTTGGCGT  
ACAGGTCTGACAGATGACTCACAAGACCCAGTGTATCAGGTGCTGTGGTTACCTGAACCCCGGCATA  
GCCACCGCTTCCAGTACTGAGTGCAGCCACAGATGGCAAGGTGTTGCTCTGGAGAGGCAGTGGGCGCG  
TCAGCTGCGGCTCACAAGGGCTTTGCCCTGGCTGTGCAGCAGCTGCCTCGGAGCACCAAGCTGAAGAAG  
CCACCCCGTGGAGAGACTGAGGTGGGGTGACATCAGTGGCCTTCTCCAGCTTTGACTCCAGCCTTTTCG  
TTCTGGGCACAGAAGGTGGCTTCCCCCTCAAGTGTCCCTGGCGTCAGAGGTAGCTGCTCTACTCGGAT  
GCCAGCTCTGTGCCGTGAGGGCCCCGGTGCAGTTACCTTCTCTCCCCATGGTGGCCCCGTGTATTCT  
GTGAGCTGTTCCCCCTTTCACAGGAATCTTCTCCTGAGCGCTGGGACCGATGGCCAGCTCCACCTGTACT  
CCATGCTGACAGGCTCAGCCCTTACCTCACTGCAGCTCTCTACAAGTACCTGTTTGTGTGCGCTGGTC  
CCCTGTGCGCCCCCTTGGTTTTGTGCTGCTTTCAGGGGAAGGTGATGTACAATTTTTGACCTCCAGAAA  
AGCTCACAGAAACCCACAGTTTCTATAACACAAACCAAGATGGAAGTCTGTCTACTGTCTCGAGTTTA  
ACAGCCAGCAGACACAGCTTTAGCCGCTGGTGTGCTAAGGGCATGGTCAAAGTGTGGCAGCTGAGCAC  
AGCCTTACAGAACAAAGGGCCCCGGGAGGTGGAGGACTTGGATCAGCTAGAAGCAGAAATCACTACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206644 protein sequence  
 Red=Cloning site Green=Tags(s)

MVIRELNNWQSHAFDGYEVNWTEQQQTVSCLHTLVYPLAQGQGLHVTGISWNSTGVLACAYGRLLDDGD  
 WSTLKSIVCTWNLDRQGLNPQQPSVVVEVPSAVMCLAFHPTQPSHIAGGLYSGEVLVWDMSRPEDPLLWR  
 TGLTDDTHTDPVYQVLWLEPRHSHRFQVLSAATDGKVLWRGSGAGQLRLTKGFALAVQQLPRSTKLKK  
 PPRGETEVGVTSAFSSFSSFLVLTGTEGGFPLKCSLASEVAALTRMPSSVPLRAPVQFTFSPHGGPVYS  
 VSCSPFHRNLFSLAGTDGHVHLYSMLQAQPLTSLQLSHKYLFAVRWSPVRPLVFAAASGEDVQLFDLQK  
 SSQKPTVSITQTQDQSPVYCLEFNSQQTQLLAAGDAKGMVKVWQLSTAFTEQGPREVEDLDQLEAEITT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001008498

**ORF Size:** 1260 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\\_001008498.1](#), [NP\\_001008498.1](#)

**RefSeq Size:** 1812 bp

**RefSeq ORF:** 1614 bp

**Locus ID:** 71820

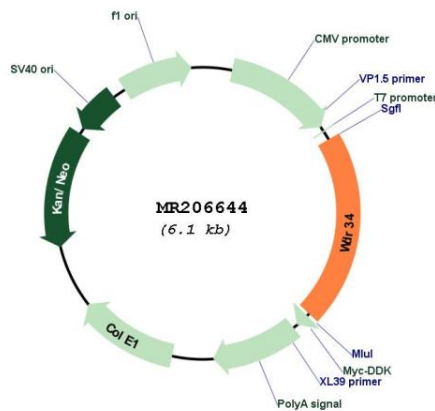
**UniProt ID:** [Q5U4F6](#)

**Cytogenetics:** 2 B

**MW:** 46 kDa

**Gene Summary:** Critical for ciliary functions, essential to normal development and survival, most probably as a previously unrecognized component of the mammalian dynein-motor-based intraflagellar transport (IFT) machinery. Acts as a negative regulator of the Toll-like and IL-1R receptor signaling pathways. Inhibits the MAP3K7-induced NF-kappa-B activation pathway. Inhibits MAP3K7 phosphorylation at 'Thr-184' and 'Thr-187' upon Il-1 beta stimulation (By similarity). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR206644