

## Product datasheet for MR204938

### Wdr5 (NM\_080848) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr5 (NM_080848) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wdr5
Synonyms:	2410008O07Rik; AA408785; AA960360; Big; Big-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204938 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACAGAGGAGAAGAAGCCAGAGACAGAGGCTGCAAGAGCACAGCCACTCCTTCCTCATCAGCCA  
CACAGAGCAAGCCACACCAGTTAAGCCAACTATGCCCTGAAGTTCACCCTGGCTGGCCACACCAAAGC  
TGTGTCTCTGTGAAGTTCAGCCCAATGGGAATGGTTGGCAAGTTCATCTGCTGATAAACTCATTAAA  
ATTTGGGGAGCATATGATGGAAAGTTTGAGAAAATATATCTGGTCACAACTGGGAATATCTGATGTAG  
CGTGGTCATCAGATTCTAACCTCCTTGTGTCTGCCTCTGATGATAAACTTTGAAGATTTGGGACGTGAG  
TTCCGGGAAGTGTCTGAAGACCCTGAAGGGCCACAGTAACTACGTCTTCTGCTGCAACTCAACCCCGAG  
TCCAACCTCATCGTCTCAGGGTCTTTTGTGAAAGTGTGAGGATATGGGACGTGAAGACAGGGAAGTGCC  
TCAAGACTTTGCCTGCCATTTCGGACCCAGTCTCAGCCGTTCAATTTCAACCGTATGGATCATTGATTGT  
TTCCAGTAGTATGATGGCCTCTGCCGAATCTGGGACACCCGCTCTGGCCAGTGTCTGAAGACACTCATT  
GATGATGACAATCCTCCAGTGTCTTCTGTAAGTCTCTCCAATGGCAAATACATCCTGGCTGCAACTT  
TGGACAACACACTGAAGCTCTGGGACTACAGCAAGGGGAAGTGCCTGAAGACATACACTGGCCACAAGAA  
TGAGAAGTACTGCATATTTGCCAACTTCTCCGTGACAGGCGGGAAGTGGATTGTGTCTGGTCTGAAGAT  
AACCTGGTGTATATCTGGAATCTGCAGACCAAGGAGATTGTGCAGAAGTGCAGGTCACACAGATGTTG  
TGATTTCCACGGCTTGTACCCGACAGAGAATCATTGCCTCAGCAGCGTTAGAGAACGACAAAACAAT  
CAAACCTGTGAAGAGTGACTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >MR204938 protein sequence  
 Red=Cloning site Green=Tags(s)

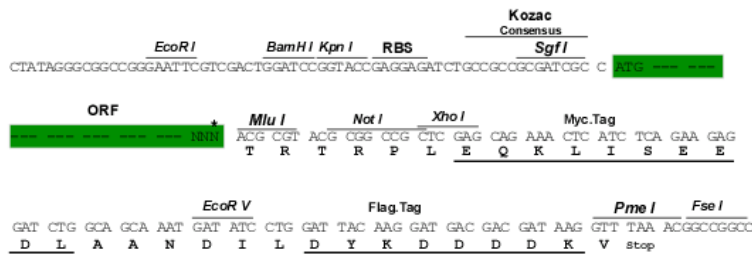
MATEEKKPETEAARAQPTPSSSATQSKPTPVKPNYALKFTLAGHTKAVSSVKFSPNGEWLASSADKLIK  
 IWGAYDGKFEKTI SGHKLGI SDVAWSSDNLVVSASDDKTLKIWDVSSGKCLKTLKGHSNYVFCNFPQ  
 SNLIVSGSFDES VRIWDVKTGKCLKTLPAHSDPVSAVHFNRDGLIVSSSYDGLCRIWDTASGQCLKTLI  
 DDDNPPVSFVKFSPNGKYILAATLDNTLKLWDYSK GKCLKTYTGHKNEKYCIFANF SVTGGKWIVSGSED  
 NLVYIWNLQTK EIVQKLQGH TDVVI STACHPTENIIASAALENDKTIK LKWSDC

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\_080848

**ORF Size:** 1005 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\\_080848.2](#)

**RefSeq Size:** 2916 bp

**RefSeq ORF:** 1005 bp

**Locus ID:** 140858

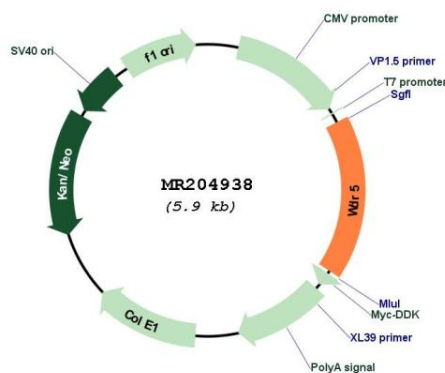
**UniProt ID:** [P61965](#)

**Cytogenetics:** 2 A3

**MW:** 36.6 kDa

**Gene Summary:** Contributes to histone modification. May position the N-terminus of histone H3 for efficient trimethylation at 'Lys-4'. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. May regulate osteoblasts differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204938