

## Product datasheet for **MG204938**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr5 (NM_080848) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wdr5
Synonyms:	2410008O07Rik; AA408785; AA960360; Big; Big-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204938 representing NM_080848 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACAGAGGAGAAGAAGCCAGAGACAGAGGCTGCAAGAGCACAGCCACTCCTTCCTCATCAGCCA  
CACAGAGCAAGCCACACCAGTTAAGCCAACTATGCCCTGAAGTTCACCCTGGCTGGCCACACCAAAGC  
TGTGTCTCTGTGAAGTTCAGCCCAATGGGGAATGGTTGGCAAGTTCATCTGCTGATAAACTCATTAAA  
ATTTGGGGAGCATATGATGGAAAGTTTGAGAAAATATCTGGTCACAACTGGGAATATCTGATGTAG  
CGTGGTCATCAGATTCTAACCTCCTTGTGTCTGCCTCTGATGATAAACTTTGAAGATTTGGGACGTGAG  
TTCCGGGAAGTGTCTGAAGACCCTGAAGGGCCACAGTAACCTACGTCCTTCTGCTGCAACTCAACCCCGAG  
TCCAACCTCATCGTCTCAGGGTCTTTTGATGAAAGTGTGAGGATATGGGACGTGAAGACAGGGAAGTGCC  
TCAAGACTTTGCCTGCCATTTCGGACCCAGTCTCAGCCGTTCAATTTCAACCGTATGGATCATTGATTGT  
TTCCAGTAGCTATGATGGCCTCTGCCGAATCTGGGACACCCGCTCTGGCCAGTGTCTGAAGACACTCATT  
GATGATGACAATCCTCCAGTGTCTTCTGTAAGTTCCTCCAATGGCAAATACATCCTGGCTGCAACTT  
TGGACAACACTGAAGCTCTGGGACTACAGCAAGGGGAAGTGCCTGAAGACATACACTGGCCACAAGAA  
TGAGAAGTACTGCATATTTGCCAACTTCTCCGTGACAGGCGGGAAGTGGATTGTGTCTGGTTCTGAAGAT  
AACCTGGTGTATCTGGAATCTGCAGACCAAGGAGATTGTGCAGAAGTGCAGGTCACACAGATGTTG  
TGATTTCCAGGCTTGTACCCGACAGAGAATCATTGCCTCAGCAGCGTTAGAGAACGACAAAAAAT  
CAAACCTGTGAAGAGTGACTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204938 representing NM\_080848  
 Red=Cloning site Green=Tags(s)

MATEEKKPETEAARAQPTPSSSATQSKPTPVKPNYALKFTLAGHTKAVSSVKFSPNGEWLASSADKLIK  
 IWGAYDGKFEKTSI SGHKLGI SDVAWSSDNLVVSADDTLKIWDVSSGKCLKTLKGHSNYVFCNFPQ  
 SNLIVSGSFDSESVRIWDVKTGKCLKTLPAHSDPVSAVHFNRDGLIVSSSYDGLCRIWDTASGQCLKTLI  
 DDDNPPVSFVKFSPNGKYILAATLDNTLKLWDYSK GKCLKTYTGHKNEKYCIFANF SVTGGKWI VSGSED  
 NLVYIWNLQTK EIVQKLQGH TDVVI STACHPTENIIASAALENDKTIK LWKSDC

TRTRPLE - GFP Tag - V

**Restriction Sites:**

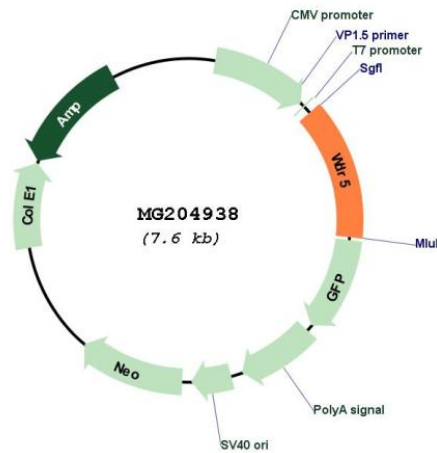
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_080848

**ORF Size:** 1002 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>RefSeq:</b>	<a href="#">NM_080848.2</a>
<b>RefSeq Size:</b>	2921 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	140858
<b>UniProt ID:</b>	<a href="#">P61965</a>
<b>Cytogenetics:</b>	2 A3
<b>Gene Summary:</b>	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]