

## Product datasheet for **MG205136**

### Wdr77 (NM\_027432) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wdr77 (NM\_027432) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Wdr77  
**Synonyms:** 2610003I18Rik; 2610312E17Rik; C79984; p44/MEP50  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205136 representing NM\_027432  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGGAAGGACACCCTCCTCCGCTCGTGCCCCGGCGCCCGCGAGTGGAACTGCCCCCAATGCGC  
 CCGCATGCATGGAACGTC AATTGGAGGCTGCACGGTACCGGTCTGATGGTTCCCTTCTGCTCGGGGTCTC  
 CAGCCTGAGTGGTCGCTGCTGGGTAGGTTCTCTGTGGTTTTTCAAGGATCCTAGTGGGCCCCCAACGAA  
 GGTTTCTGCTCTGCTGGCGTCCAGACCGAGGCTGGAGTAGCTGACCTCACTTGGGTGGGGACAAAGGTA  
 TCCTAGTGGCTTCTGATTCAAGTGTGTTGAATTGTGGGAGCTAGATGAGAACGAGACACTTATAGTCAG  
 CAAGTTCTGCAAGTATGAGCATGATGACATTGTGTCTACTGTCACTGTCCTGAGCTCTGGCACACAAGCT  
 GTCAGTGGTAGCAAAGACTGCTGCATCAAAATTTGGGACCTGGCTCAGCAGGTATCACTGAATTCATACC  
 GAGCTCACGCTGGACAGGTTACCTGTGTTGCTGCCTCTCCCCACAAGACTCTGTGTTTCTTTTCATGTAG  
 TGAGGACAGTAGAATTTGCTCTGGGATACCCGCTGTCCCAAGCCGGCATCACAGATGGCCTGCAATGCC  
 TCTGGCTACCTCCCTACCGCTTTGGCTTGGCATCCTCAGCAGAGTGAAGTCTTTGTTTTTGGTGACGAGA  
 ATGGATCTGTCTCCCTTGTGGACACCAAGAATGCAAGCTGTACCTCAGCTCAGCTGTGCACTCCAGGG  
 TGCTACTAGACTGGTATTCTCCCCACACAGTGTCCCCCTCCTGACTTCTCTCAGTGAAGACTGTTCACTT  
 GCTGTGCTGGATTCAAGCCTTTCTGAGGTGTTTGAAGTCGAGCCACAGAGACTTGTGAGAGATGCTA  
 CGTGGTCTCCACTCAATCACTCCCTTCTTACCACAGTTGGCTGGGACCATCAGGTCATCCACCATGTTGT  
 GCCCTTAGAGCTCTCCCAAACCTGGACCTGACAGTGTGTGGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG205136 representing NM\_027432  
 Red=Cloning site Green=Tags(s)

MRKDTPPPLVPPAAREWNLPPNAPACMERQLEAARYRSDGSLLLGVSSLSGRCWVGSWFFKDPSSAAPNE  
 GFCSAGVQTEAGVADL TWVGDGKILVASDSGAVELWELDENETLIVSKFCKYEHDDIVSTVTVLSSGTQA  
 VSGSKDCCIKIWDLAQQVSLNSYRAHAGQVTCVAASPHKDSVFLSCSEDSRILLWDRCPKPKPASQMACNA  
 SGYLPALAWHPQQSEVVFVFGDENGVSLSVDTKNASCTLSSAVHSQGVTRLVFSPHSVPLLTSLSEDCSL  
 AVLDSSSLSEVFRSRAHRDFVRDATWSPLNHSLLTTVGWDHQVIHHVVPLEPLPNPDPDSVVE

TRTRPLE - GFP Tag - V

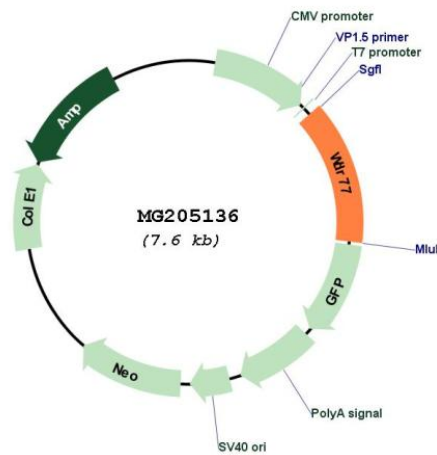
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_027432

ORF Size: 1026 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_027432.3</a> , <a href="#">NP_081708.1</a>
<b>RefSeq Size:</b>	3553 bp
<b>RefSeq ORF:</b>	1029 bp
<b>Locus ID:</b>	70465
<b>UniProt ID:</b>	<a href="#">Q99J09</a>
<b>Cytogenetics:</b>	3 F2.2
<b>Gene Summary:</b>	Non-catalytic component of the methylosome complex, composed of PRMT5, WDR77 and CLNS1A, which modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins and histones. This modification targets Sm proteins to the survival of motor neurons (SMN) complex for assembly into small nuclear ribonucleoprotein core particles. Might play a role in transcription regulation. The methylosome complex also methylates the Piwi proteins (PIWIL1, PIWIL2 and PIWIL4), methylation of Piwi proteins being required for the interaction with Tudor domain-containing proteins and subsequent localization to the meiotic nuage (PubMed:19584108).[UniProtKB/Swiss-Prot Function]