

## Product datasheet for RN203500

### Wdr77 (NM\_001008771) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wdr77 (NM\_001008771) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Wdr77  
**Synonyms:** Ac2-269; MEP-50; RGD1310479  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN203500 representing NM\_001008771  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGAAGGAAAGCCACCTCCGCTCGTGCCCCGGCGCCCGCGAGTGGAACCTGCCCCCAATGCGC  
 CCGCCTGCATGGAACGGCAGTTGGAAGCTGCACGGTACCGCTCTGATGGTCCCTTCTGCTCGGGGCTTC  
 CAGTCTGAGTGGTCGCTGCTGGGCAGGATCTCTGTGGTTTTCAAGGATCCTAGTGCGGCCCAACGAA  
 GGTTTTCTGCTCTGCTGGCGTCCAGACGGAGGCTGGAGTAGCTGACCTCACTTGGGTTGGGACAAAGGTA  
 TCTTAGTGGCTTCTGATTCAGGTGCTGTTGAATTGTTGGGAGCTAGATGAGAACGAGACACTTATTGTCAG  
 CAAGTTCTGCAAGTATGAGCATGATGACATTGTGTCTACTGTCACTGTCCTGAGCTCCGGCACACAGGCT  
 GTCAGTGGTAGCAAAGACTTCTGCATCAAAATTTGGGACCTGGCTCAGCAGATGTCGCTGAATTCATACC  
 GAGTCAATGCGGGACAGGTCACCTGTGTGCTGCCTCTCCCCACAGAGAACTGTGTTCTTTTCATGCAG  
 TGAGGACAGTAGAATTTGCTCTGGGATACCCGCTGTCCCAAGCCGGCATCACAGATGGGCTGCAATGCC  
 TCTGGCTACCTCCCTACCTCCCTGGCTTGGCATCCTCAGCAGAGTGAAATCTTTGCTTTTGGTGTGAGA  
 ATGGATCTGTCTCCCTTGTGGACCAAGAATGCAAGCTGCACCCTCAGCTCAGCTCGACTCGCAGTG  
 TGCACTAGACTGGTGTCTCTCCACACAGTGTCCCTTCTGGCTCTCTCAGTGAAGACTGTTCACTT  
 GCTGTGCTGGATTCAAGCTTTTCTGAGGTGTTTGAAGTCGAGCCACAGAGACTTTGTGAGAGATGCTA  
 CATGGTCTCCACTCAATCACTCCCTTCTTACCACAGTTGGCTGGGACCATCAGGTCATCCACCATGTTGT  
 GCCGTTAGAGCCTCTCCAGCCCTGGACCTGACAGTGTGTGGAG**TAG**

**ACGGT**ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001008771



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<b>Insert Size:</b>	1029 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_001008771.3</a></u> , <u><a href="#">NP_001008771.2</a></u>
<b>RefSeq Size:</b>	2047 bp
<b>RefSeq ORF:</b>	1029 bp
<b>Locus ID:</b>	310769
<b>UniProt ID:</b>	<u><a href="#">Q4QR85</a></u>
<b>Cytogenetics:</b>	2q34
<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. [UniProtKB/Swiss-Prot Function]