

## Product datasheet for **MC200277**

### **Wdr77 (BC005755) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Wdr77 (BC005755) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Wdr77
Synonyms:	2610003I18Rik; 2610312E17Rik; C79984; p44/MEP50
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC005755  
 CTCGTCGAGTCTGGGTCTAGGTTAGATTTGGAATCGTGGAGATGCGGAAGGACACCCCTCCTCCGCTCGT  
 GCCCCCGCGGCCCGCGAGTGGAACCTGCCCCCAATGCGCCCGCATGCATGGAACGTCAATTGGAGGCT  
 GCACGGTACCGGTCTGATGGTCCCTTCTGCTCGGGTCTCCAGCCTGAGTGGTCTGCTGGGTAGGTT  
 CTCTGTGGTTTTTCAAGGATCCTAGTGCGGCCCAACGAAGTTTCTGCTCTGCTGGCTCCAGACCGA  
 GGCTGGAGTAGCTGACCTCACTTGGGTGGGGACAAAGGTATCCTAGTGGCTTCTGATTCAGGTGCTGTT  
 GAATTGTGGGAGTAGATGAGAACGAGACACTTATAGTCAGCAAGTTCTGCAAGTATGAGCATGATGACA  
 TTGTGTCTACTGTCACTGTCTGAGCTCTGGCACACAAGCTGTCAAGTGGTAGCAAAGACTGCTGCATCAA  
 AATTTGGGACCTGGCTCAGCAGGTATCACTGAATTCATACCGAGCTCACGCTGGACAGGTTACCTGTGTT  
 GCTGCCTCTCCCAAAAGACTCTGTGTTCTTTCATGTAGTGAGGACAGTAGAATTTGCTCTGGGATA  
 CCCGCTGTCCCAAGCCGGCATCACAGATGGCCTGCAATGCCTCTGGCTACCTCCCTACCGCTTTGGCTTG  
 GCATCCTCAGCAGAGTGAAGTCTTTGTTTTGGTGACGAGAATGGATCTGTCTCCCTTGTGGACACCAAG  
 AATGCAAGCTGTACCCTCAGCTCAGCTGTGCACTCCCAGGGTGTCACTAGACTGGTATTCTCCCAACA  
 GTGTCCCCTCCTGACTTCTCTCAGTGAAGACTGTTCACTTGCTGTGCTGGATTCAAGCCTTTCTGAGGT  
 GTTTAGAAGTCGAGCCCACAGAGACTTTGTGAGAGATGCTACGTGGTCTCCACTCAATCACTCCCTTCTT  
 ACCACAGTTGGCTGGGACCATCAGGTATCCACCATGTTGTGCCCTTAGAGCCTCTCCCAAAACCCTGGAC  
 CTGACAGTGTGTGGAGTAGAATGGATTTCAGAAAAACAAAACAAGCCCTCCGTCTGTAAGCGACTACT  
 CGATTGCCCTGCCTTCCATGTGTGAGAGCACAGGAGCCTTGTAGAGCATGTTTCTCCCTAGCCCCGTG  
 CAGTAACAGGCAGATTCTCAGCCTGAGGGAGGCTGCATCCCATAGTACTCAGAGGAAGAAACTTCTCT  
 GTAAATGGATGTATGTGAGTACAGTGTGAGTGGGATATAGTTGGAGTGGAGAAAATTATTCTTCAG  
 CTTTCCCAAAGCAATGCTCTTTACCCCTGACAAAGTGACCAGAGGATTTAATGCTTCCCATGTCTGGGA  
 ATTGGCGATGTTAGGGATATGGAATGTGGGTATCCCTAGATTTTTGGGAATACTTCATACACTACTCAGAGG  
 TGCCTAACTATTTTTATATAGAGTTTAACTCACTATTATGGGAATTACTTCCATATAACAAAAGTCTAGC  
 CCCTGTACCTTGAGAAGACAAAACAGTTTTGTACAAGTCCCTGTTATACTGAGTCAAATCCATTTTCTG  
 GGTGAATAAATTTGGCCCTGCAAGTGTAGCTCTGTTTACCCCTTCTCCTTGGTGTGTGTGAGAGA  
 TGAGTGTTCCTGTCCTAGATTTACAGATAAGTTGTAGGGATGATGGACCACTAAAAGTGTTCAGT  
 GAAGTGGGAAAATTGACATGGATTGTTACAGAGAAATCTGTCATTTTTCCACCTAAAATTGATCTGGG  
 TACCTTCTCTGGAGAGCTGAAGTCTGAATGTATTTTGGACTCCTAAGATTTGAGATCCAGCATCAGGG  
 AAAGTGTGCGAAATACTAAAAGGTGAAATAAAGACTTTTATCCTTGAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** BC005755

**Insert Size:** 1029 bp

**OTI Disclaimer:** 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).

**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: [BC005755](#), [AAH05755](#)

RefSeq Size: 1958 bp

RefSeq ORF: 1029 bp

Locus ID: 70465

Cytogenetics: 3 F2.2

**Gene Summary:** 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]