

## Product datasheet for **MC207977**

### Wdr83os (NM\_001001493) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Wdr83os (NM\_001001493) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Wdr83os  
**Synonyms:** Wdr83os  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207977 representing NM\_001001493  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCCACTAACAAATATGTCGACCCACGAAGGCCCAACAAAGTCTGAGGTATAAGCCTCCCCGAGTG  
AGTGCAACCCGGCTTTAGACGACCCGACTCCGGACTACATGAATCTTCTGGCATGATCTTCAGCATGTG  
TGGCCTCATGCTTAAGCTGAAGTGGTGTGCTTGGGTTGCTGTCTACTGCTCTTTATCAGCTTTGCCAAC  
TCGCGGAGCTCGGAGGACACTAAGCAGATGATGAGTAGCTTCATGCTCTATCTCCGCCGTGGTATGT  
CCTATCTGCAGAATCCTCAGCCATGACGCCTCCCTGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001001493

**Insert Size:** 321 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).



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**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\\_001001493.2](#), [NP\\_001001493.1](#)

**RefSeq Size:** 815 bp

**RefSeq ORF:** 321 bp

**Locus ID:** 414077

**UniProt ID:** [Q6ZWX0](#)

**Cytogenetics:** 8 C3

**Gene Summary:** Component of the PAT complex, an endoplasmic reticulum (ER)-resident membrane multiprotein complex that facilitates multi-pass membrane proteins insertion into membranes. The PAT complex acts as an intramembrane chaperone by directly interacting with nascent transmembrane domains (TMDs), releasing its substrates upon correct folding, and is needed for optimal biogenesis of multi-pass membrane proteins. WDR83OS/Asterix is the substrate-interacting subunit of the PAT complex, whereas CCDC47 is required to maintain the stability of WDR83OS/Asterix. WDR83OS/Asterix associates with the first transmembrane domain (TMD1) of the nascent chain, independently of the N-glycosylation of the chain and irrespective of the amino acid sequence and transmembrane topology of TMD1. The PAT complex favors the binding to TMDs with exposed hydrophilic amino acids within the lipid bilayer and provides a membrane-embedded partially hydrophilic environment in which TMD1 binds.[UniProtKB/Swiss-Prot Function]