

## Product datasheet for **RN210806**

### **Wdr1 (NM\_001014135) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Wdr1 (NM_001014135) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Wdr1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN210806 representing NM\_001014135  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGTACGAGATCAAGAAGGTGTTCCGACGCCTCCCCAGGTGGAGCGGGGTGTCTCTAAGATCCTCG  
 GCGGAGACCCCAAGGGCGATAATTTCTCTACACCAATGGCAAGTGCATCCTGAGGAACATCGACAA  
 CCCTGCTGTTGCTGACATCTACACAGAACAGCCCATCAGGTGGTAGTAGCCAAGTATGCACCCAGCGGA  
 TTCTACATTGCTTCTGGAGATATCTCTGGGAAGCTAAGGATCTGGGATACCACACAGAAGGAGCACATTC  
 TAAAGTATGAGTACCAGCCTTTCGCTGGGAAGATCAAGGACATAGCCTGGACCGAAGACAGTAAGAGGAT  
 CGCCGTGGTCCGGGAAGGAAGGGAGAAAATTTGGAGCTGTCTTCTTATGGGACACTGGCTCTTCTGTGGT  
 GAGATCACAGGACACAACAAAGTCATTAACAGCGTGGACATCAAGCAGAACAGGCCCTACCGACTAGCAA  
 CAGGGAGTGACGATAACTGTGCTGCATTCTCGAGGGCCCCCATTCAAGTTCAAGTTTACAATTGGTGA  
 CCACAGCCGCTTGTCAACTGTGTGCGATTCTCTCCTGATGGGAACAGATTTGCCACAGCTAGTGCTGAT  
 GGCAGATTTTTCATTTATGATGGGAAGACAGGAGAAAAGGTGTGTGCCCTTGGAGGAAGCAAGGCTCATG  
 ATGGAGGAATTTATGCCATTAGTTGGAGTCTGATAGCACCCATTTGCTATCTGCCTCTGGAGACAAAAC  
 CTCTAAGATTTGGGATGTCAATGTAACACTCTGTGGTCCAGCACGTTTCCCATGGGCTCCAATGTTCTGGAC  
 CAGCAGCTGGGCTGCCTCTGGCAGAAGGACCACCTCCTTAGCATCTCCCTGTCTGGATACATCAACTACC  
 TGGACAAAAATAACCCAGCAAGCCCTCCGGGTATCAAGGGTACAGTAAATCCATCCAGTGTCTGAC  
 AGTGCACAAAAATGGTGGCAATCCTACATCTATTCTGGGAGCCATGATGGCCATATTAATTACTGGGAT  
 TCAGAGACAGGAGAGAATGACTCCTTCTCTGAAAAGGCCACACAAATCAGGTGTCCAGGATGACTGTGG  
 ACGAGTCTGGGCAGTTGGTCAGCTGCAGCATGGACGACACAGTGGGATATACTAACCTCACACTGAGGGA  
 CTACAGTGGACAAGGCGTTGTGAAACTGGATGTTAGCCAAAGTGTGTAGCTGTTGGCCCTGGGGGATAT  
 ACCGTGGTCTGTGCATTGGACAGATTGCTTCTGAAGGACCAGAAGAAATGCTTCAGCATCGACAACC  
 CTGGCTACGAGCCTGAAGTTGTTGCTGTGCACCCTGGTGGGACACAGTAGCTGTTGGTGGCTCGGATGG  
 CAATGTGCGTGTACTCCATCCTGGGTGCCACACTAAAGGATGAAGGCAAACCTCCTAGAGGCCAAGGGG  
 CCAGTGACAGACTTGGCCTACTCTCATGACGGTGCCTTCTGGCTGTGTGTGATGCCAGCAAGGTGGTCA  
 CAGTGTTCAGTGTAGCTGATGGCTATTCGGAGAATAATGTTTTTATGGACACCATGCAAAAATTGTGTG  
 CCTGGCCTGGTACCAGATAATGAACACTTTCCTCTGGCGGCATGGACATGATGGTATATGTGTGGACA  
 CTGAGTGACCCAGAGACCAAGTCAAGATCAAGATGCCACCGCTGCACCACGTGACAGTCTGGCCT  
 GGCTGGACGAACACACTGGTACCACCTCCCATGACGCTCTGTGAAGGAGTGGACAATCACCTACTG  
 A

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001014135
- Insert Size:** 1821 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:** [NM\\_001014135.1](#), [NP\\_001014157.1](#)

**RefSeq Size:** 2844 bp

**RefSeq ORF:** 1821 bp

**Locus ID:** 360950

**UniProt ID:** [Q5RKI0](#)

**Cytogenetics:** 14q21

**Gene Summary:** Induces disassembly of actin filaments in conjunction with ADF/cofilin family proteins. Enhances cofilin-mediated actin severing. Involved in cytokinesis. Involved in chemotactic cell migration by restricting lamellipodial membrane protrusions. Involved in myocardium sarcomere organization. Required for cardiomyocyte growth and maintenance. Involved in megakaryocyte maturation and platelet shedding. Required for the establishment of planar cell polarity (PCP) during follicular epithelium development and for cell shape changes during PCP; the function seems to implicate cooperation with CFL1 and/or DSTN/ADF. Involved in the generation/maintenance of cortical tension. Involved in assembly and maintenance of epithelial apical cell junctions and plays a role in the organization of the perijunctional actomyosin belt (By similarity).[UniProtKB/Swiss-Prot Function]