

## Product datasheet for **RN206143**

### Wdr91 (NM\_001127298) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr91 (NM_001127298) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Wdr91
Synonyms:	RGD1306697
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN206143 representing NM\_001127298  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGGCGGTGGAGCGCACAGACGAGCTGGTCCGGGAGTACCTGCTTCCGTGGCTTCACGCACA  
 CACTGCGGCAGCTGGATGCCGAGATCAAGGCGGACAAAGAGAAGGGGTTCCGGGTGGACAAAATTGTGGA  
 CCAATTACAACAGCTGATGCAGGTATATGACTTGGCTGCCCTTCGGGATTATTGGAGCTACCTGGAACGC  
 AGGCTCTTCAGCCGCTGGAGGACATATATCGACCCACCATCAACAACTGAAAACAGCCTGTTCCGCT  
 TTTATCTAGTCTACACAATCCAGACAAACCGAAATGACAAGGCACAGGAGTTCTTTGCAAAGCAGGCTAC  
 GGAGCTCCAGAACCAGGCTGAATGGAAGATTGGTTTCGTCCTGCCCTTCTGCCGTCGCCGGACACCAAC  
 CCTACCTTCGCTACCTACTTCTCCGACAGTGGGCTGACACCTTCATTATTTCCCTGCACAACCTCTGA  
 GTGTCTCTTCCAGTGCATGCCGGTGCCTGTGATCCTGAACCTTTGATGCGGAGTGCCAGAGGACCAACCA  
 GGTCCAGGAAGAAAATGAGGTTCTGCGTCAGAAGCTCTTGCACGCAAGCCGAGGTCCATCGTCTGAAG  
 AAGGAAGAACAGCAGCAGGAAGAAGCAGCAGCTTTGGTCCAGCACAAGCTGCCCCCTTATGTCTCCAGTA  
 TGGACCGCTTGGGGACTCGGAGCTAGCATTGGTGTGCAGCCAGAGGCCTGCCTCCCTCTCCAGTCTCC  
 TCGAGTGGGGTTCCTGTCTCACTGCTGCCTCAGAGCAAAAAGAGCCCTCAAGTTGTACCTGCCCAA  
 GGCCCCCTCAGGCTCAGAGTTCAGCCAAGAAAGATACCTTCAGCAGTCAAGGCTACCAAGGGAAAGGATC  
 CAGTGCCTGGGGCCAAGGATGGGAAGAGCCTTCTGAGTGGGCCAGTCCCTGGGGAAGCAAGCTGGACACA  
 TCAGCGACAACGGCGTCTGCAGGACCATGGCAAGGAGAGGAGGGAGCTGCTCTACATCCTCTCCAG  
 ACGCAGTGTGCAGAGAAGAAGCTAGAAGGCAGCGGCCAGAGGCTGAGCTCTGCCTGGACCTCCACATGG  
 GGCCAGTGGAGGCTCTGGCTCGGGTGTCCACAGCAGGTTCCGAGGGAGACCGCCCGGAACAGCCCTTCAT  
 AGTGCTGAGCCAAGAAGAATATGGGGAGCACCATTCATCCATCATGCACTGCAGAGTGGACTGCTCTGGT  
 AGGAGAGTGGCCAGCTTAGACGTAGATGGGGTCAATCAAGGTGTGGTCTTCAATCCCATCATGCAGACCA  
 AGGCGTCTCCATCTCTAAGTCACTGCTCTCCCTGGAGTGGGCCACCAAGCGAGACAGGCTGCTCTCT  
 GCTGGGCAAGTGTGGGGACGGTGCCTTTATGATACGGAAGCCAAGAAGAACCTCTGTGAAATCAAC  
 ATCAACGATGACATGCCTAGAATCCTGTCTTTCCTGCAGCCCCAATGGGGCTCTTTCGCTGTTCAG  
 CCGCAGCTCCGAGCCTTACCTCCAGCCAGATTCTCAGCCCCGATATCGGCAGCAAAGGCATGAACCA  
 GGTTCTGGCAAGCTGCTGCTGTGGGATACGAAAACCATGAAGCAGCAGCTTCAGTTCTCGCTGGACCA  
 GAGCCCATTGCCATCACTGCACAGCTTCAACCATAATGGGAACCTGCTGGTCCAGGGGCAGCTGATG  
 GAGTCATCCGGCTCTTTGACATGCAGCAGCATGGATGTGCTATGAGCTGGAAGGCCCACTGTGGGAGGT  
 CTACTCTGTGGAATTCAGCTATGATGAGAATGCCGTGAACAGCATCGGGAGGACGGCAAGTTTCATCCAG  
 TGGAAATCCACAAGAGTGGTCTCAAGGTGTGGGAGTACAGCCTCCCTTCAGATGCCACTGGCCCTTTG  
 TCCTGTCTGGCTACAGTGGCTACAAGCAGGTCCAAGTTCCAGGGGGCGGCTGTTTGCTTTTGACTCAGA  
 GGGCAATTACATGCTGACGTGCTCTGCCACAGGGGGCCTCATCTACAAGCTGGGCAGTGAAGAGAAAAGTT  
 CTAGAAAAGTGTCTGAGCCTGGGTGGCCACCGTGGCCCTGTGGTCAACCGTGGACTGGAGCACTGCAATGG  
 ACTGTGGGACGTGCCTCACTGCCTCCATGGATGGCAAGATCAAGTCACTACCCCTCTAGCACATAAGCT  
**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001127298  
**Insert Size:** 2244 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_001127298.2</a></u> , <u><a href="#">NP_001120770.2</a></u>
<b>RefSeq Size:</b>	2586 bp
<b>RefSeq ORF:</b>	2244 bp
<b>Locus ID:</b>	312225
<b>UniProt ID:</b>	<u><a href="#">B2RY10</a></u>
<b>Cytogenetics:</b>	4q22
<b>Gene Summary:</b>	Functions as a negative regulator of the PI3 kinase/PI3K activity associated with endosomal membranes via BECN1, a core subunit of the PI3K complex. By modifying the phosphatidylinositol 3-phosphate/PtdInsP3 content of endosomal membranes may regulate endosome fusion, recycling, sorting and early to late endosome transport. It is for instance, required for the delivery of cargos like BST2/tetherin from early to late endosome and thereby participates indirectly to their degradation by the lysosome. May play a role in meiosis.[UniProtKB/Swiss-Prot Function]