

## Product datasheet for RN204208

### Wdr61 (NM\_001025743) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Wdr61 (NM\_001025743) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Wdr61  
 Synonyms: RGD1308228  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN204208 representing NM\_001025743  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCAACCAAGTACAGTATTCTCTTCAAGCAAGAGCAAGCCCACGATGATGCCATATGGTCGGTTGCCT  
 GGGAGACAAAACAAAAGGAAAACATTGAAACAGTGGTCACAGGATCCCTGGATGATCTGGTGAAGGTCTG  
 GAAATGGCGTGATGAGAGGCTGGAGCTGCAGTGGAGCCTGGAGGGACATCAGCTTGGTGTGGTGTCTGTC  
 GACATCAGCCACACCCTCCATTGCTGCCTCCAGTTCTCTAGATGCTCATATTCGACTCTGGGACTTGG  
 AAAATGGCAAACAGATGAAGTCTATAGATGCAGGACCGGTGGATGCCTGGACTTTGGCATTCTCTCCGGA  
 CTCCCAGCATCTGGCAACAGGAACCTCACATGGGGAAAGTGAACATTTTTGGTGTGGAAAGTGGAAAAAAA  
 GAATACTCTTTGGACTAGAGGAAAATTCATCCTTAGCATTGCATATAGTCCTGATGGAAAATACCTGG  
 CCAGCGGAGCCATAGACGGGATCATCAATTTTTGATATTGCAACTGGAAAGCTTCTGCACACGCTGGA  
 AGGCCATGCGATGCCATTTCGATCCTTGACCTTTCCCTGACTCCCAGCTCCTCGTCACGGCTTCAGAT  
 GATGGCTACATCAAGATCTATGATGTGCAACATGCCAATTTGGCTGGCACACTGAGTGCCATGCATCCT  
 GGGTATTGAATGTTGCGTTCTGTCCAGATGACACTCACTTTGTTCCAGTTCATCCGACAAAAGGTAAA  
 GGTCTGGGATGTTGGAACAAGGACCTGTATTCACACCTTCTTTGACCACCAGGATCAGGTTTGGGGAGTA  
 AAATATAATGGAAATGGATCAAAAATTGTGTCTGTTGGAGATGACCAGGAGATCCATGTCTATGACTGCC  
 CAATTTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001025743  
 Insert Size: 918 bp



[View online »](#)

<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>	<a href="#">NM_001025743.1</a> , <a href="#">NP_001020914.1</a>
<b>RefSeq Size:</b>	1232 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	363064
<b>UniProt ID:</b>	<a href="#">Q4V7A0</a>
<b>Cytogenetics:</b>	8q24
<b>Gene Summary:</b>	Component of the PAF1 complex (PAF1C) which has multiple functions during transcription by RNA polymerase II and is implicated in regulation of development and maintenance of embryonic stem cell pluripotency. PAF1C associates with RNA polymerase II through interaction with POLR2A CTD non-phosphorylated and 'Ser-2'- and 'Ser-5'-phosphorylated forms and is involved in transcriptional elongation, acting both independently and synergistically with TCEA1 and in cooperation with the DSIF complex and HTATSF1. PAF1C is required for transcription of Hox and Wnt target genes. PAF1C is involved in hematopoiesis and stimulates transcriptional activity of KMT2A/MLL1. PAF1C is involved in histone modifications such as ubiquitination of histone H2B and methylation on histone H3 'Lys-4' (H3K4me3). PAF1C recruits the RNF20/40 E3 ubiquitin-protein ligase complex and the E2 enzyme UBE2A or UBE2B to chromatin which mediate monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1); UB2A/B-mediated H2B ubiquitination is proposed to be coupled to transcription. PAF1C is involved in mRNA 3' end formation probably through association with cleavage and poly(A) factors. Required for mono- and trimethylation on histone H3 'Lys-4' (H3K4me3), dimethylation on histone H3 'Lys-79' (H3K4me3). Required for Hox gene transcription. Component of the SKI complex which is thought to be involved in exosome-mediated RNA decay and associates with transcriptionally active genes in a manner dependent on PAF1C (By similarity).[UniProtKB/Swiss-Prot Function]