

Product datasheet for **RN203622**

Wdr5 (NM_001039034) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr5 (NM_001039034) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Wdr5
Synonyms:	MGC114572
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN203622 representing NM_001039034 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCACGGAGGAGAAGAAACCAGAGACAGAGGCTGCAAGAGCACAGCCCACTCCTTCTCATCAGCCA
CACAGAGCAAGCCTACACCTGTTAAGCCAAACTATGCCCTGAAGTTCACCCTGGCTGGCCACACAAAAGC
TGTGTCCTCTGTGAAGTTCAGCCCAATGGGGAGTGGCTGGCAAGTTCCTCTGCTGATAAACTCATTAAA
ATTTGGGGAGCATATGATGGAAAGTTTGAGAAAATATATCTGGTCACAACTGGGAATATCTGATGTAG
CCTGGTCATCAGATTCTAACCTCCTTGTGTCTGCCTCTGATGATAAACTTTGAAGATTTGGGACGTGAG
TTCCGGAAAGTGTCTGAAGACCCTAAAGGGCCACAGTAACTATGTCTTCTGCTGCAACTTCAACCCCGAG
TCCAACCTCATCGTCTCAGGGTCTTTTGTGAAAGTGTGAGGATATGGGATGTGAAGACAGGGAAGTGCC
TCAAGACTTTGCCTGCCATTCCGATCCAGTCTCAGCCGTTCAATTCATCGTATGGATCCTTGATCGT
TTCCAGTAGCTATGATGGCCTCTGCCGAATCTGGGACTGCCTCTGGCCAATGTCTGAAGACGCTCATT
GATGACGACAATCCTCCGGTGCCTTCGTGAAGTTCCTCCAAATGGCAAGTACATCCTGGCTGCAACTT
TGGACAACACACTGAAGCTCTGGGACTACAGCAAAGGGAAGTGCCTGAAGACATACACCGCCACAAGAA
TGAGAAGTACTGCATATTTGCCAACTTCTCCGTGACAGGTGGGAAGTGGATCGTGTCTGGCTCTGAAGAT
AACCTGGTATATCTGGAATCTGCAGACCAAGGAGATCGTACAGAAGTTCAGGGTCATACAGATGTCCG
TGATCTCCACGGCTGTCAACCAACAGAGAACATCATTGCCTCAGCAGCGTTAGAGAATGACAAAACAAT
CAAAGTGTGAAGAGTGACTGCTAA

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001039034



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Insert Size:	1005 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:	<ol style="list-style-type: none">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:	<u>NM_001039034.1</u> , <u>NP_001034123.1</u>
RefSeq Size:	3140 bp
RefSeq ORF:	1005 bp
Locus ID:	362093
UniProt ID:	<u>Q498M4</u>
Cytogenetics:	3p12
Gene Summary:	Contributes to histone modification. May position the N-terminus of histone H3 for efficient trimethylation at 'Lys-4'. As part of the MLL1/MLL complex it is involved in methylation and dimethylation at 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. May regulate osteoblasts differentiation (By similarity).[UniProtKB/Swiss-Prot Function]