

Product datasheet for **RR203622**

Wdr5 (NM_001039034) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wdr5 (NM_001039034) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Wdr5
Synonyms: MGC114572
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203622 representing NM_001039034
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCACGGAGGAGAAGAAACCAGAGACAGAGGCTGCAAGAGCACAGCCCACTCCTTCTCATCAGCCA
CACAGAGCAAGCCTACACCTGTTAAGCCAAACTATGCCCTGAAGTTCACCCTGGCTGGCCACACAAAAGC
TGTGCTCTGTGAAGTTCAGCCCAATGGGGAGTGGCTGGCAAGTTCCTCTGCTGATAAACTCATTAAA
ATTTGGGAGCATATGATGGAAAGTTTGGAAAATATATCTGGTCACAACTGGGAATATCTGATGTAG
CCTGGTCATCAGATTCTAACCTCCTTGTGTCTGCCTCTGATGATAAACTTTGAAGATTTGGGACGTGAG
TTCCGGAAAGTGTCTGAAGACCCTAAAGGGCCACAGTAACTATGTCTTCTGCTGCAACTTCAACCCCGAG
TCCAACCTCATCGTCTCAGGGTCTTTTGTGAAAGTGTGAGGATATGGGATGTGAAGACAGGGAAGTGCC
TCAAGACTTTGCCTGCCATTCCGATCCAGTCTCAGCCGTTCAATTCATCGTATGGATCCTTGATCGT
TTCCAGTAGCTATGATGGCCTCTGCCGAATCTGGGACTGCCTCTGGCCAATGTCTGAAGACGCTCATT
GATGACGACAATCCTCCGGTGTCTTCTGTAAGTTCCTCCAAATGGCAAGTACATCCTGGCTGCAACTT
TGGACAACACACTGAAGCTCTGGGACTACAGCAAAGGGAAGTGCCTGAAGACATACACCGCCACAAGAA
TGAGAAGTACTGCATATTTGCCAACTTCTCCGTGACAGGTGGGAAGTGGATCGTGTCTGGCTCTGAAGAT
AACCTGGTATATCTGGAATCTGCAGACCAAGGAGATCGTACAGAAGTTGCAGGGTCATACAGATGTCCG
TGATCTCCACGGCTGTCAACCAACAGAGAACATCATTGCCTCAGCAGCGTTAGAGAATGACAAAACAAT
CAAAGTGTGAAGAGTGACTGC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203622 representing NM_001039034
 Red=Cloning site Green=Tags(s)

MATEEKKPETEAARAQPTPSSSATQSKPTPVKPNYALKFTLAGHTKAVSSVKFSPNGEWLASSADKLIK
 IWGAYDGFKEKTSI SGHKLGI SDVAWSSDNLV SASDDTKLKIWDVSSGKCLKTLKGHSNYVFCNFPNQ
 SNLIVSGSFDSESVRIWDVKTGKCLKTLPAHSDPVSAVHFNRDGLIVSSSYDGLCRIWDTASGQCLKTLI
 DDDNPPVSFVKFSPNGKYILAATLDNTLKLWDYSKGKCLKTYTGHKNEKYCIFANF SVTGGKWIVSGSED
 NLVYIWNLQTKIEIVQKLQGH TDVVI STACHPTENIIASAALENDKTIKLWKS DC

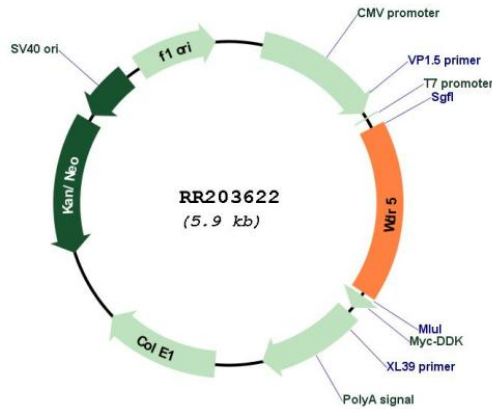
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001039034

ORF Size: 1002 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001039034.1 , NP_001034123.1
RefSeq Size:	3140 bp
RefSeq ORF:	1005 bp
Locus ID:	362093
UniProt ID:	Q498M4
Cytogenetics:	3p12
MW:	36.6 kDa
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]