

## Product datasheet for MR216454

### Wdr82 (NM\_029896) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr82 (NM_029896) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wdr82
Synonyms:	9430077D24Rik; CDW5/WDR82
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216454 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAAGCTGACCGACAGCGTGCTCCGGAGCTTCCGCGTCGCCAAGGTGTTCCGCGAGAAGCTCAGACAAGA  
TCAACTGCTTTGACTTTAGTCCCAATGGCGAGACGGTCATCTCTAGCAGCGATGATGACTCCATCGTGCT  
CTATGACTGCCAGGAGGGCAAACCAAAGAGAACCCTGTACAGTAAGAAGTACGGTGTGGACCTCATCAGA  
TACACCCATGCAGCCAACACAGTCGTTTACAGCTCTAACAAAATAGACGATACTATTCGTTACTTGTCTCT  
TGCATGACAATAAATACATCAGATACTTCTCCTGGACACAGCAAGAGGGTGGTGGCCTTGCCATGTCACC  
TGTGGATGACACTTTCATTTCTGGGTCTTTGATAAGACCATTGACTCTGGGATCTCCGGTCTCCTAAC  
TGCCAGGGCCTCATGCATCTACAGGGCAAACCTGTCTGTTCTTTGATCCAGAAGGGTTAATTTTTGCTG  
CGGGCGTCAACTCAGAAATGGTCAAACCTTATGACCTTCGTTCTTTGATAAGGGACCATTTGCAACATT  
TAAGATGCAGTATGATAGGACCTGTGAGTGGACAGGACTTAAGTTCAGCAATGATGGCAAATGATACTC  
ATCTCCACCAACGGCAGCTTTATCCGACTGATTGACGCATTCAAGGGTGTGGTATGCACACATTTGGGG  
GTTATGCTAACAGCAAAGCTGTGACACTCGAAGCTTCAATTTACTCCAGACTCACAGTTTATTATGATCGG  
TTCAGAAGACGGCAAAATCCACGTCTGGAATGGAGAGAGTGGTATAAAAGTGGCTGTATTGGATGGCAA  
CACACTGGTCCCATTACCTGTTTGAATTCACCCCAAGTTTATGACCTTGCCAGCGCCTGTTCCAACA  
TGGCCTTCTGGTTGCCACCATTGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR216454 protein sequence  
Red=Cloning site Green=Tags(s)

MKLTDSVLRFRVAKVFRENSDKINCFDFSPNGETVISSDDDSIVLYDCQEGKPKRTLYSKKYGVDLIR  
 YTHAANTVVYSSNKIDDTIRYLSLHDNKYIRYFPGHSKRVVALSMPVDDTFISGSLDKTIRLWDLRSPN  
 CQGLMHLQGKPVCSFDPEGLIFAAGVNSEMVKLYDLRSFDKGPFAATFKMQYDRTCWETGLKFSDGKLIIL  
 ISTNGSFIRLIDAFKGVVMHTFGGYANSKAVTLEASFTPDSQFIMIGSEDGKIHVWNGESGIKVAVLGDGK  
 HTGPITCLQFNPKFMTFASACSNMAFWLPTIDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_029896

**ORF Size:** 942 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:**

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\\_029896.1](#), [NP\\_084172.1](#)

**RefSeq Size:** 4313 bp

**RefSeq ORF:** 942 bp

**Locus ID:** 77305

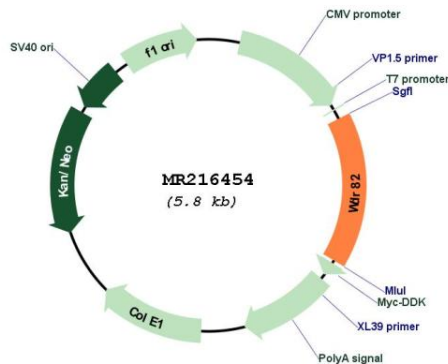
**UniProt ID:** [Q8BFQ4](#)

**Cytogenetics:** 9 F1

**MW:** 35.1 kDa

**Gene Summary:** Regulatory component of the SET1 complex implicated in the tethering of this complex to transcriptional start sites of active genes. Facilitates histone H3 'Lys-4' methylation via recruitment of the SETD1A or SETD1B to the 'Ser-5' phosphorylated C-terminal domain (CTD) of RNA polymerase II large subunit (POLR2A). Component of PTW/PP1 phosphatase complex, which plays a role in the control of chromatin structure and cell cycle progression during the transition from mitosis into interphase. Possible role in telomere length maintenance and in mRNA processing (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR216454