

## Product datasheet for **MR223554**

### Wdr1 (NM\_011715) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr1 (NM_011715) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wdr1
Synonyms:	Aip1; D5Wsu185e; rede
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR223554 representing NM\_011715  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGTACGAGATCAAGAAGGTGTTCCGCAGCCTCCCCAGGTGGAGCGGGCGTCTCTAAGATCCTCG  
 GTGGAGACCCCAAGGGCGATCATTTCCTCTACACCAATGGCAAGTGCGTCATCCTAAGAAACATCGATAA  
 CCCTGCTATTGCTGATATCTACACAGAACATGCCCATCAAGTGGTAGTAGCCAAGTATGCACCCAGCGGA  
 TTCTACATTGCTTCTGGAGACATCTCTGGGAAGCTAAGGATCTGGGATACCACACAGAAGGAGCATCTTC  
 TAAAGTATGAGTACCAGCCTTTCGCTGGGAAGTCAAGGACATTGCCTGGACGGAAGACAGTAAAGAGGAT  
 CGCCGTGGTCCGGGAAGGAAGGGAGAAGTTGGAGCTGTCTTCTTATGGGACACTGGCTCTTCTGTGGGT  
 GAGATCACAGGACACAACAAAGTCATCAACAGTGTGGACATAAAGCAGACCAGGCCCTACCGACTAGCAA  
 CAGGGAGTGATGATAACTGTGCTGCGTTCTCGAGGGCCCTCCATTCAAGTTCAGTTTACAATTGGTGA  
 CCACAGCCGCTTGTCAACTGTGTGCGATTCTCTCCTGATGGGAACAGATTTGCCACAGTACGCGTGAT  
 GGCCAGATTTTCAATTTATGATGGGAAGACGGGAGAGAAGGTGTGTGCCCTTGGAGAAAGCAAGGCCCATG  
 ATGGAGGAATTTATGCCATTAGTTGGAGTCTGTATAGCACTCATTGCTATCTGCCTCTGGAGACAAAAC  
 CTCTAAGATTTGGGATGTCAATGTAACACTCTGTGGTCAGCACGTTTCCCATGGGCTCCAATGTTCTGGAC  
 CAGCAGCTGGGCTGCCTCTGGCAGAAGGACCACCTCCTCAGCATCTCCCTGTCTGGATACATCAACTACC  
 TGGACAAGAACAACCCAGCAAACCCCTCCGGGTCAAGGGTCAACAGTAAATCCATCCAGTGTCTGAC  
 CGTGCACAGAAATGGTGGCAAGTCTACATCTATTCTGGGAGCCATGATGGACATATCAATTACTGGGAT  
 TCAGAGACAGGAGAGAATGACTCCTTCTCTGAAAAGGCCACAAAATCAGGTGTCCAGGATGACTGTGA  
 ATGAGTCTGAGCAGTTGGTCAGCTGCAGCATGGATGACACAGTGGGTACACCAACTCACACTGAGGGA  
 CTACAGTGGACAAGGCGTTGTGAAACTGGATGTTCAACCAAAGTGTGTAGCTGTTGGCCCTGGGGGATAT  
 ACTGTGGTCTGTGCATTGGACAGATTGCCTTCTGAAGGACCAGAAGAAGTGTTCAGCATCGACAACC  
 CTGGCTACGAGCCTGAAGTCGTCGCTGTGCACCCTGGTGGGACACAGTGGCTGTTGGTGGCAGCGATGG  
 CAATGTGCGTGTACTCCATCTGGCCTCCACACTAAAGGATGAAGGCAAACCTCTAGAGGCCAAGGGA  
 CCAGTAACAGACGTGGCCTACTCTCATGATGGTGCCTTCTGGCTGTGTGTGATGCCAGCAAGGTGGTCA  
 CAGTATTCAGTGTAGCTGATGGCTATTCGGAGAATAATGTTTTTATGGACACCATGCAAAAATTGTGTG  
 CCTGGCCTGGTACCAGATAATGAACACTTTCCTCTGGCGGCATGGATATGATGGTGTACGTCTGGACG  
 CTGAGTGACCCAGAGACCAAGTCAAGATCCAAGATGCTACCGGCTGCACCACGTACGAGCCTGGCCT  
 GGCTAGACGAACACACTGGTACCACCTCCCATGACGCTCTGTGAAGGAGTGGACAATCACCTAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223554 representing NM\_011715  
 Red=Cloning site Green=Tags(s)

MPYEIKKVFASLPQVERGVSKILGGDPKGDHFLYTNKCVILRNIDNPAIADIYTEHAHQVVVAKYAPSG  
 FYIASGDISGKLRIWDTTQKEHLLKYEYQPFAGKIKDIAWTEDESKRIAVVGEKREKFGAVFLWDTGSSVG  
 EITGHNKVINSDIKQTRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSRNVNCRVSPDGNRFATASAD  
 GQIFIYDGTGKVCALGESKAHDGGIYAISSPDSTHLLSASGDKTSKIWDVNVNSVSTFPMGNSVLD  
 QQLGCLWQKDHLISISLSGYINYLDKNNPSKPLRVIKGHSKSIQCLTVHRNGGKSYIYSGSHDGHINYWD  
 SETGENDSFSGKGHTNQVSRMTVNESEQLVSCSMDDTVRYTNLTLRDYSGQGVVLDVQPKCVAVGPPGY  
 TVVVCIGQIVLLKDQKCFSIDNPGYEPEVVAVHPGGDTVAVGGTDGNVRVYSILASTLKDEGLLEAKG  
 PVTDVAYSHDGAFLAVCDASKVVTVFVADGYSENNVFYGHAKIVCLAWSPDNEHFASGMDMMVYVWT  
 LSDPETKVKIQDAHRLHHVSSLAWLDEHTLVTTSHDASVKEWTITY

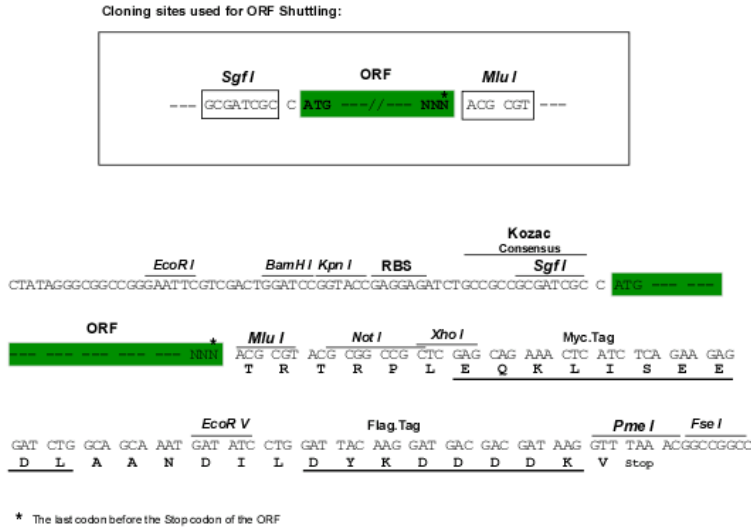
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9045\\_e09.zip](https://cdn.origene.com/chromatograms/mm9045_e09.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_011715

ORF Size: 1818 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\\_011715.3](#)

RefSeq Size: 2878 bp

RefSeq ORF: 1821 bp

Locus ID: 22388

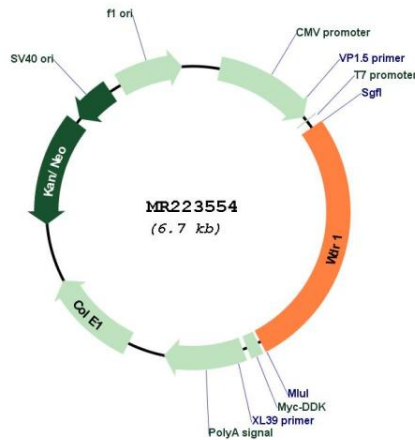
UniProt ID: [O88342](#)

Cytogenetics: 5 20.63 cM

MW: 66.9 kDa

**Gene Summary:** Induces disassembly of actin filaments in conjunction with ADF/cofilin family proteins (By similarity). Enhances cofilin-mediated actin severing (PubMed:25915128). Involved in cytokinesis. Involved in chemotactic cell migration by restricting lamellipodial membrane protrusions (By similarity). Involved in myocardium sarcomere organization. Required for cardiomyocyte growth at the postnatal and maintenance at the adult stage (PubMed:24840128). Involved in neutrophil actin dynamics and migration. Involved in megakaryocyte maturation and platelet shedding (PubMed:17515402). Required for the establishment of planar cell polarity (PCP) during follicular epithelium development and for cell shape changes during PCP; the function seems to implicate cooperation with CFL1 and/or DSTN/ADF. Involved in the generation/maintenance of cortical tension (PubMed:25915128). Involved in assembly and maintenance of epithelial apical cell junctions and plays a role in the organization of the perijunctional actomyosin belt (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR223554