

Product datasheet for **MG223554**

Wdr1 (NM_011715) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr1 (NM_011715) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wdr1
Synonyms:	Aip1; D5Wsu185e; rede
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223554 representing NM_011715
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGTACGAGATCAAGAAGGTGTTCCGACGCTCCCCAGGTGGAGCGGGCGTCTCTAAGATCCTCG
 GTGGAGACCCCAAGGGCGATCATTTCTCTACACCAATGGCAAGTGCATCCTAAGAAACATCGATAA
 CCCTGCTATTGCTGATATCTACACAGAACATGCCATCAAGTGGTAGTAGCCAAGTATGCACCCAGCGGA
 TTCTACATTGCTTCTGGAGACATCTCTGGGAAGCTAAGGATCTGGGATACCACACAGAAGGAGCATCTTC
 TAAAGTATGAGTACCAGCCTTTCGCTGGGAAGTCAAGGACATTGCCTGGACCGAAGACAGTAAAGAGGAT
 CGCCGTGGTCCGGGAAGGAAGGGAGAAGTTGGAGCTGTCTTCTTATGGGACACTGGCTCTTCTGTGGGT
 GAGATCACAGGACACAACAAAGTCATCAACAGTGTGGACATAAAGCAGACCAGGCCCTACCGACTAGCAA
 CAGGGAGTGATGATAACTGTGCTGCGTTCTCGAGGGCCCTCCATTCAAGTTCAGTTTACAATTGGTGA
 CCACAGCCGCTTGTCAACTGTGTGCGATTCTCTCCTGATGGGAACAGATTTGCCACAGTACGCGTGTGAT
 GGCCAGATTTTCAATTTATGATGGGAAGACGGGAGAGAAGGTGTGTGCCCTTGGAGAAAGCAAGGCCCATG
 ATGGAGGAATTTATGCCATTAGTTGGAGTCTGTAGCACTCATTGCTATCTGCCTCTGGAGACAAAAC
 CTCTAAGATTTGGGATGTCAATGTAACCTCTGTGGTCAAGCAGTTTCCCATGGGCTCCAATGTTCTGGAC
 CAGCAGCTGGGCTGCCTCTGGCAGAAGGACCACCTCCTCAGCATCTCCCTGTCTGGATACATCAACTACC
 TGGACAAGAACAACCCAGCAAACCCCTCCGGGTCAATTAAGGGTACAGTAAATCCATCCAGTGTCTGAC
 CGTGCACAGAAATGGTGGCAAGTCTACATCTATTCTGGGAGCCATGATGGACATATCAATTACTGGGAT
 TCAGAGACAGGAGAGAATGACTCCTTCTCTGAAAAGGCCACACAATCAGGTGTCCAGGATGACTGTGA
 ATGAGTCTGAGCAGTTGGTCACTGCAGCATGGATGACACAGTGGGTACACCAACCTCACACTGAGGGA
 CTACAGTGGACAAGGCGTTGTGAACTGGATGTTCAACCAAGTGTGTAGCTGTTGGCCCTGGGGGATAT
 ACTGTGGTCTGTGCATTGGACAGATTGCTTCTGAAGGACCAGAAGAAGTGTTCAGCATCGACAACC
 CTGGCTACGAGCCTGAAGTCGTCGCTGTGCACCCTGGTGGGACACAGTGGCTGTTGGTGGCAGCGATGG
 CAATGTGCGTGTACTCCATCTGGCCTCCACACTAAAGGATGAAGGCAAACCTCTAGAGGCCAAGGGA
 CCAGTAACAGACGTGGCCTACTCTCATGATGGTGCCTTCTGGCTGTGTGTGATGCCAGCAAGGTGGTCA
 CAGTATTCAGTGTAGCTGATGGCTATTCGGAGAATAATGTTTTTATGGACACCATGCAAAAATTGTGTG
 CCTGGCCTGGTACCAGATAATGAACACTTTCCTCTGGCGGCATGGATATGATGGTGTACGTCTGGACG
 CTGAGTGACCCAGAGACCAAGTCAAGATCCAAGATGCTACCGGCTGCACCACGTACGAGCCTGGCCT
 GGCTAGACGAACACACTGGTACCACCTCCCATGACGCTCTGTGAAGGAGTGGACAATCACCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223554 representing NM_011715
 Red=Cloning site Green=Tags(s)

MPYEIKKVFASLPQVERGVSKILGGDPKGDHFLYTNKCVILRNIDNPAIADIYTEHAHQVVVAKYAPSG
 FYIASGDISGKLRWDTTQKEHLLKYEYQPFAGKIKDIAWTEDESKRIAVVGEKREKFGAVFLWDTGSSVG
 EITGHNKVINSDIKQTRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSRNVNCRVSPDGNRFATASAD
 GQIFIYDGTGKVCALGESKAHDGGIYAISSPDSTHLLSASGDKTSKIWDVNVNSVSTFPMGNSVLD
 QQLGCLWQKDHLISISLGYINYLDKNNPSKPLRVIKGHSKSIQCLTVHRNGGKSYIYSGSHDGHINYWD
 SETGENSFSGKHTNQSRMTVNESEQLVSCSMDDTVRYTNLTLRDYSGQGVVCLDVQPKCVAVGPGGY
 TVVVCIGQIVLLKQKCFSIDNPGYEPEVVAVHPGGDTVAVGGTDGNVRVYSILASTLKDEGKLEAKG
 PVTDVAYSHDGAFLAVCDASKVTVFVSVADGYSENNVYFGHAKIVCLAWSPDNEHFASGMDMMVYVWT
 LSDPETVKIQDAHRLHHVSSLAWLDEHTLVTTSHDASVKEWTITY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-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_011715.2](#), [NP_035845.1](#)

RefSeq Size: 2878 bp

RefSeq ORF: 1821 bp

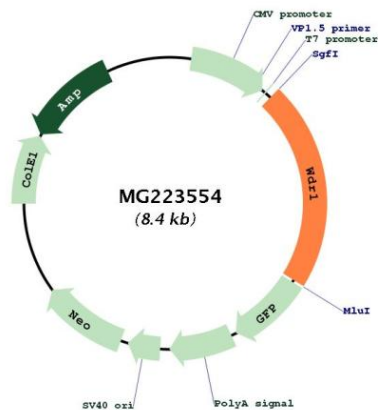
Locus ID: 22388

UniProt ID: [O88342](#)

Cytogenetics: 5 20.63 cM

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 MG223554