

Product datasheet for **MR209396**

Wdr78 (NM_146254) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr78 (NM_146254) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wdr78
Synonyms:	BC028975
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209396 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCATAGCTCTCCGACGAGCACCCGCAAGCAGGCCAGCTTCGCCGCGAGTGCCAGTGCACAACCAAGGA
 AGTCCATCAGCTTTATTAAACCCATCAAAATCAAGTGCAGGGAAAGGATATGCTGCCTCAAACCCAAACAA
 ATTGGCCGTATCAAGAACTATGGTTTTTTAACTGACATGAAGCCGCGCAGAAAACTAAACGTTCTTAGC
 GCTAAACAGTACAGGTGCTTGATTCAAAGGAGTTGATGTCACACCCCGACCTCTTACCATCCAGATC
 CACATGCTGCGTCAGCAAAGCCAAACAACTCTTGACATCACAAGAAGGATCGCTTGGATCAGATTATAT
 TTCTTCTATAGCCTCTATCAGAATACACTAAACCCTAGCATGTTAGGGCAGTACACAAGGTCAGTCCTG
 GGGAGCAGTTCAGTGTGAAGTCAAGCATCTCAACAAGTGAAGTGCAGAGGACCTGAAGATTCTCT
 CTTACAAGAGGGATAGATTGGCCAGTTTTACAGATGTACGAGTCTGAGGTCCACAGCTGAGGCAGCCAT
 ATCAAAGGAAGAGCTGGAGAAGACTATAGAAATCATCCTCACTGAGACGGAACACTGAGATTCTTTGAC
 CTGCCAACAGTCATGTTCTCAACAGAGTCTGAAGAAGCTGAGAAAATAATAGAGAAAAATAAGAAGTATG
 AAACCCTTTGTAGAAATAGATTAGGCAATGACTTATACGTAGAAAAGAAATGATGCAGACATTTAATGGAGC
 ACCAAAGAATAAAGAGGTTCAAGTGTGAAAAATCATACTGGAAAGAAAAGGTGTAGTGGCCACTACCTGG
 GATTTGTATGATTCTTACAACATTCAGAAACTTTGCTAGCTGCAAAACGATCTGGATATCAAGTAAAG
 GAAGTTTGCTGCTAAAGACCGGACCCAAAAATACAAGACAGTGAAGTAGTTCTCTAATGGACATAGA
 AAATGTAATCTGGCTAAAGTCAAGAGGATGAAGAAGACAACCTCAGAGGCAATATTAAGTCTGATAAG
 CTTTCATCAAGACTTATTTACATGGAAGGGTTTTAATGGAAAATGTGTTTCAGCCGAAGCTTGCAGCCT
 ACCGCAACTCCCTGTTTATAAAGAACACGAACCTGAAGAGCCTGAAGAAAATTTGCAAGTGGAAAATCT
 TAAGGTAGCAGAGGACGAGCCGAAGAAGGAAGATGAAGAAGAAGTGGAAAATGGAACCTAGAGCTAGAGATA
 GCTACGGAACAGTCAACAATACCGGCTAATTTGGAACGGCTCTGGTCTTTCTCCTGTGACTTAACGAAAG
 GCCTCAACGTGAGCAGCCTTTCTGGAATAAAGCAAACCCAGACCTTTTGGCTGTTGGCTATGGAACCTT
 TGGATTTAGAGAACAAAAAAGGAATGGCCTGCTGCTGGTCAATAAAGAACCCCATGTGGCCAGAGCGT
 ATTTATCAGAGTTCATATGGAGTTACTTCTGTGGACTTTTCAAACAGCTCACCTAATCTGCTAGCAGTTG
 GCTACCACAATGGCACCCTTTCGATTTACAATGTGCAGAGCAGCCACAACATTCCAGTCTGGACAGTAG
 TGAATCACCTCAAAAACATTTGGGACCTGTTTGGCAAGTGCAGTGGATAGAGCAAGACAGAGGAAGTACT
 GGGGATGACAAGAGAGAAATCTTGGTGTCCATATCAGCCGATGGAAGGATCTCCAAGTGGATCATCCGCA
 AAGGACTGGATTGTCATGGACACGAACATCTATCTGGCTGGTACAGAAGAAGGCCTTATTCACAAGTGT
 CTTGTTTCATACAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209396 protein sequence
 Red=Cloning site Green=Tags(s)

MHSSPTSTRKQASFAASASAQPRKISISFINPSKSSAGKYAASNPNKLAVSRMGLTDMKPAEKLNVPS
 AKTVQVLDSKGVDPVTPRPLYPDPHAASAKPNKLLTSQEGSLGSDYISSYSLYQNTLNPSMLGQYTRSVL
 GSSSVSKSISTTESMSEDLSDSYKRDRLASF TDVRLRSTAEAAISKEELEKTIIEIIL TETETLRFFD
 LPTVMFSTEEAEKIIIEKNKKYETLCRNRLGNDLYVERMMQTFNGAPKNKEVQCEKIIIEEKGVVATTW
 DLYDSYNIPELTLAAKRSYGSSKGLPAKDRDPKIQDSESSSLMDIENVILAKVQEDEEDNSEAILKSDK
 LHQDLFYMERVLMENVFQPKLAAYRQLPYKHEHEPEEPEETLQVENLKVAEDEPKKEDEEEVEMELELEI
 ATEQSTIPANLERLWSFSCDLTKGLNVSSLWNKANPDLLAVGYGNFGFREQKKGMAACCWSIKNPMWPER
 IYQSSYGVTSVDFSNSSPNLLAVGYHNGTVAIYNVQSSHNIPLVLDSSSESPQKHLGPVWQVQWIEQDRGTT
 GDDKREILVSIADGRISKWIIIRKGLDCHGHEHL SGWYRRRPYSQVFLFIQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146254

ORF Size: 1836 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_146254.1](#), [NP_666366.1](#)

RefSeq Size: 3793 bp

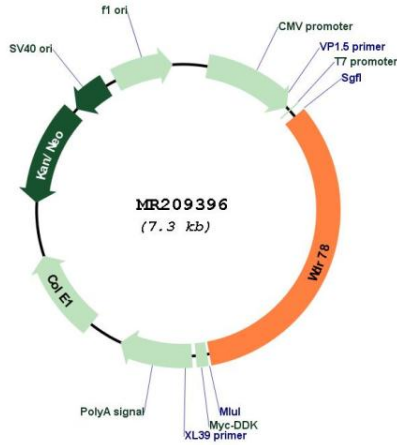
RefSeq ORF: 2424 bp

Locus ID: 242584

UniProt ID: [E9PYY5](#)

Cytogenetics: 4 C6
 MW: 68.7 kDa
 Gene Summary: Plays a critical role in the assembly of axonemal dynein complex, thereby playing a role in ciliary motility.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209396