

Product datasheet for MC223017

Wdr59 (NM_176923) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr59 (NM_176923) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Wdr59
Synonyms:	5430401O09Rik; Cdw12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223017 representing NM_176923 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGCGCTGGAGCAGCGAGAACGTGGTGGTGGAGTTTCGAGACTCTCAGGCAACTGCCATGTCTG
TGGACTGTCTTGGGCAGCATGCAGTGCTTTCTGGCCGACGATTCTGTACATCGTCAATCTAGATGCCCC
TTTTGAAGGTCACCGGAAGATCTCCCGCCAGAGCAAATGGGACATTGGAGCTGTGCAGTGGAAACCTCAT
GACAGCTTCGCACACTATTTGCAGCTTCGAGTAATCAACGGGTCGACCTTTATAAGTGGAAAGATGGCA
GCGGGGAAGTTGGTACAACCTTTACAGGGGCACACTCGAGTTATCAGCGACTTGGACTGGGCAGTGTTTGA
GCCAGATCTCCTGGTCACCAGCTCTGTGGACACCTACATCTACATCTGGGATATCAAAGACACAAGGAAA
CCTACTGTTGCACTGTGCGCTGTAGCTGGTGCCTCCCAGGTCAAATGGAATAAGAAGAACGCCAACTACC
TTGCCACCAGTCACGATGGTGACGTACGGATATGGGACAAGCGAAAACCCAGTACAGCTGTGGAATATCT
AGCAGCCCACCTCTCCAAGATCCACGGCCTGGACTGGCACCCAGACAGTGAGCACATCTTTGCCACCTCC
AGTCAAGATAACTCTGTCAAGTTCTGGGATTACCGCCAGCCTCGGAAATACCTCAATATCCTCCCTTGCC
AGGTGCCTGTCTGAAAGCCAGATACACGCCTTCAGCAACGGGCTAGTGACCGTGATGGTTCCCCAGCT
GCGGAGGAGAACAGCCTGCTCCTGTGGAACCGCTCTGACTTGAACGCTCCAGTTCACACCTTTGTGGGT
CATGATGACGTGGTGTGGAGTCCAGTGGAGGAGGCAGAAGGAAGGATCCAAGGACTATCAACTGGTTA
CATGGTCCCGTGATCAGACCTTGAGAATGTGGCGAGTGGACTATCAAATGCAGAGGCTCTGTGCCAATGA
CATACTGGATGGTGTGATGAGTTCATTGAGAGCATCTCTCCTGCCGGAACCAGAGAAGACCCACAT
CCTCAAGACATAGATCACCAGCCAGCTTAAGCCATGGAGAGGAAGATGCCATAAAGGAAGACCTCCCA
GCAGTTTGCTGGAAGAGAAGAGATCAGACCAACTAGGCCTCCCCAGACTCTGCAACAGGAGTTCTCCTT
GATCAACGTGCAGATCCGGAATGTCAATGTGGAGATGGACGCTGCAGACCGGAGCTGCACAGTGTCTGTG
CACTGCAGCAACCACCGTGTGAAGATGCTGGTGACCTTCCCGCGCAGTACCCTAACACGCTGCTCCTT
CCTTCCAGTTCATTAATCCTACCACTATCACGTCTGCCGTGAAGGCCAAGCTGCTGAAGATCCTAAAGGA
CACTTCACTGCAGAAAGTGAAACGCAACCAGAGCTGTTGGAGCCTTGCTGCGCCAGCTGTCTCGTGC



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CTTGAGTCTTTTGTGAACCAAGAGGACAGTGCTTCTAGCAACCCATTTGCACTCCAAAACCTGTGCACAC
 CACCCTTGCCGACATTTGCACGGGTGACCACTGCCTACGGCTCTACCAGGATGCCAACATTCCTTTTCC
 TAGGACCTCTGGGGCCAGGTTCTGTGGAGCAGGTTACCTGGTGTACTTACACGACCCATGACGATGCAT
 CGAGCAGTGTCTCCACAGAGCCTACTCCTAGGTCTCTCAGCCCTGTCTGCTTATCATACTGGTTTGA
 TTGCACCAATGAAGATCCGCACCGAGGCCCTGGGAACCTGCGTCTGTACAGTGGGAGCCCAACTCGCAG
 TGAGAAAGAGCAGGTCTCCATCAGTTCCTTCTATTACAAGGAACGGAAATCGAGGAGGTGGAAGAGTAAG
 CGGAAGGCTCTGACTCCGGCAACCGACCCATTAAAGCTGTGGCAAGGTCATCATCCAGGATGTCTCGT
 GCCTCCTTCCCGTTCATAAGTCCTTGGGAGAGCTGTACATATTGAATGTGAACGACACTCAGGAGACATG
 TCAGAAGAATGCCACTTCTGCCATGCTTGTGGGAAGGAAGGATCTTGTCCAGTTTGGTCTGGCTACG
 GTAGCTACAGATCTTTCCTTGGGCCGAAGTCTGACCCAGATTTGGAACACCTTGGGCTCGACATCCAT
 TTGGGCGACAACCTGCTGGAGTCCCTCTGGGGAGACCGAGAGAGACAAGAGTGTGTGGACCACCTCTCTC
 AGGTGCTAGACTGGCTCACTATTGCCAACTCCGAGATGTTTCCAGCCTTGGCTATGCTCTGTAGCGTGTTT
 GAAGCCAGTCCCGCCTCAGGGCTTACCAAACCTTTTGGGCCTTCCCTAATCGTTCCTAATCTTG
 TGGTGTCCACAGCCGCTATCCAGCTTCACTCCTCGGGTCTGCTCCAGCATGTCAGATCCAGGTT
 CAACACGGTGGCTGGAACATAGGAAGAGAGACAGAACACATATCTTACCTTGGGGGAGTCTTCGCCA
 GAGGAGTCCGCTTGGGAGTCTGACCTACAGTGACCCCGGGAGCGGGAACGAGACCAGCATGATAAAA
 ACAAAGGCTCCTGGACCCTGCCAATACCCAGCAGTTTACGACTTTAAGAAAGTCTACGGAGAGATCCT
 CTACCGCTGGGCTCTGAGAGAGAAGCGAGCAGAAGTGCTGAAGTTTGTGTCTGCCCTCCTGACCCTCAC
 AAAGGGATCGAGTTTGGTGTGTACTGCAGTCACTGTGGAGCGAGGTCCTGGCACCAGTGCGCCATCT
 GCAAAGGCTTACCTTCCAGTGTGCCATCTGCCATGTGGCCGTGCGGGGTTTATCCAACCTTCTGCCTGAC
 CTGTGGCATGGTGGCCACACGAGCCACATGATGGAGTGGTTTCGGACCCAGGAGGTATGTCCCACGGGG
 TGTGGCTGCCACTGCCTGCTGGAGAGCACCTTCGA

AGCGGACCGACGCTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-RsrII

ACCN:

NM_176923

Insert Size:

2976 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_176923.4](#), [NP_795897.2](#)

RefSeq Size:

5162 bp

RefSeq ORF:

2976 bp

Locus ID: 319481

UniProt ID: [Q8COM0](#)

Cytogenetics: 8 E1

Gene Summary: As a component of the GATOR subcomplex GATOR2, functions within the amino acid-sensing branch of the TORC1 signaling pathway. Indirectly activates mTORC1 and the TORC1 signaling pathway through the inhibition of the GATOR1 subcomplex. It is negatively regulated by the upstream amino acid sensors SESN2 and CASTOR1.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 2, which is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.