

## Product datasheet for **SC122523**

### WDR59 (BC004519) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WDR59 (BC004519) Human Untagged Clone
Tag:	Tag Free
Symbol:	WDR59
Synonyms:	FLJ12270; FP977; MGC11230; WD repeat domain 59
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for BC004519 edited  
 CCGGGATACTGGGGACGGCGGGGTGGGAGGGCGCCGTCCTGGGGCCGCGCGGCCGGGGC  
 GGGGAGATGGCGGCGGATGGAGCAGCGAAAACGTGGTTGTAGAGTTCCTGACTCCCAG  
 GCAACTGCGATGTCTGTGGACTGTCTTGGGCAGCATGCAGTGCTTTCTGGCCGAGATTC  
 TTATACATCGTCAATCTAGATGCCCTTTTGAAGGTCACCGAAAAGATCTCTGCCAGAGC  
 AAATGGGACATTGGAGCTGTGCAGTGAATCCTCATGACAGCTTTCACACTATTTTGGC  
 GCTTCGAGTAACCAACGAGTAGACCTTTACAAGTGGAAAGACGGCAGTGGGGAAGTTGGC  
 ACAACCTTACAAGGCCACACTCGTGTCTCAGCGACTTGGACTGGGCGGTGTTTGGAGCT  
 GACCTCTGGTTACCAGCTCTGTGGACCTACATCTACATTTGGGATATCAAAGACACA  
 AGGAAACCTACTGTTGCACTGTCTGCTGTTGCGGGTGCCTCCCAGGTCAAATGGAATAAA  
 AAAAATGCTAACTGCCTTGCCACCAGCCATGACGGCGATGTGCGGATATGGGATAAGAGG  
 AAACCCAGTACAGCAGTGAATATCTAGCCGCCACCTCTCCAAAATCCATGGCCTGGAC  
 TGGCACCAGACAGCGAGCACATTCTTGCTACCTCCAGTCAAGACAATTCTGTGAAGTTC  
 TGGGATTACCGCCAGCCTCGGAAATACCTCAATATTCTTCTTGGCAGGTGCCTGTCTGG  
 AAGGCCAGATACACACCTTTAGCAATGGATTGGTACTGTGATGTTCCCCAGTGCAGG  
 AGGGAAAACAGCCTTCTCCTGTGGAATGTCTTTGACTTGAACACCCAGTCCACACCTTC  
 GTGGGGCATGATGATGTGGTCTGGAGTTCAGTGGAGGAAGCAGAAGGAAGGGTCCAAG  
 GACTATCAACTGGTGACGTGGTCCCAGGATCAGACCTTGAGAATGTGGCGGGTGGATTCC  
 CAGATGCAGAGGCTTTGTGCAATGACATATTAGATGGTGTGATGAGTTCATTGAGAGT  
 ATTTCCCTTCTGCCGGAACCTGAGAAGACCCTGCACACTGAAGATACAGATCACCAGCAC  
 ACTGCAAGCCATGGGGAGGAAGAAGCCCTAAAAGAAGTCCCCTAGAAATCTCCTGGAA  
 GAGAGGAAATCAGATCAACTGGGGCTGCCTCAGACCTTGCAGCAGGAATTCTCCCTGATC  
 AATGTGCAAAATCCGGAATGTCAATGTGGAGATGGATGCGGCAGACAGGAGCTGCACAGTG  
 TCTGTGCACTGCAGCAACCATCGTGTCAAGATGCTGGTGAAGTTCCTGCACAGTACCCA  
 AACACGCGCCCTTCTTCCAGTTTATTAACCCACAACCATCACATCCACCATGAAA  
 GCTAAGCTGCTGAAGATCCTGAAGGACACAGCCCTGCAGAAAAGTGAAGCGTGGCCAGAGC  
 TGCCTGGAGCCCTGCCTGCGCCAGCTCGTCTCCTGCCTTGGAGTCTTTGTGAACCAGGAA  
 GACAGCGCTTCCAGCAACCCGTTTGCACCTCCCAACTCTGTCACTCCCCCTTACCAGC  
 TTTGCGCGGGTGACCACGGCTTACGGGTCGTACCAGGACGCCAACATTCCCTTCTAGG  
 ACTTCTGGGGCCAGGTTCTGCGGAGCAGGTTACCTGGTATATTTACAAGGCCCATGACA  
 ATGCATCGGGCGGTGTCTCCACAGAGCCTACTCCGAGGTGAGTCAGGGAGATGCAGAAG  
 CCGCTCTACGTTCCCGGGCCAGAAGTGCCAGAGACCTGGGAAGGACCACTGAGTTTGC  
 TTTTGGACAGTGCATTTAGTCTTTCAGTAAACTCCCATTATAAGATTTATTTGAGAAAAG  
 ATTGAAGTCAATTAATTGCAAAAAAGCTGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC004519 unedited  
 NNCCAGTGTGCGGATTTGTAATACGACTTACTATAGGGCGCCGGAATTCGCACAGGCG  
 CGGGATACTGGGACGGCGGGGTGGGAGGGCGCCGTCCTGGGGCCGCGCGGCCGGGGCGG  
 GGGAGATGGCGGCGGATGGAGCAGCGAAAACGTGGTTGTAGAGTTCCTGACTCCCATG  
 CAACTGCGATGTCTGTGGACTGTCTTGGGCAGCATGCAGTGCTTTCTGGCCGAGATTCT  
 TATACATCGTCAATCTAGATGCCCTTTTGAAGGTCACCGAAAAGATCTCTGCCAGAGCA  
 AATGGGACATTGGAGCTGTGCAGTGAATCCTCATGACAGCTTTGCACACTATTTTGGCG  
 CTTTCGAGTAACCAACGAGTAGACCTTTACAAGTGGAAAGACGGCAGTGGGGAAGTTGGCA  
 CAACCTTACAAGGCCACACTCGTGTCTCAGCGACTTGGACTGGGCGGTGTTTGGAGCCTG  
 ACCTCCTGGTTACCAGCTCTGTGGACCTACATCTACATTTGGGATATCAAAGACACAA  
 GGAACCTACTGTGCACTGTCTGCTGTTGCGGGTGCCTCCANGTCAAATGGAATAAAA  
 AAAATGCTAACTGCCTTGCCACCAGCCATGACGGCGATGTGCGGATATGGGATAAGATGA  
 AACCCAGTACAGCAGTGAATATCTAGCCGCCACCTCTCCAAAATCATGGCCTGNACTG  
 GCACCCAGACAGCGAGCACATTCTTGCTACCTCCAGTCAAGACAATTCTGTGAAGTCTG  
 GGATTACCGNACGCTCGGAAATACCTCAATATTCTTNCCTTGGCAGGTGCCTGTCTGGAA  
 TGCCAGATACACACCTTTAGCATGGNATGGTACTGTGATGTTCCCCAGCTGCGGA

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC004519
<b>Insert Size:</b>	1985 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC004519.2</a> , <a href="#">AAH04519.1</a>
<b>RefSeq Size:</b>	1976 bp
<b>Locus ID:</b>	79726
<b>Cytogenetics:</b>	16q23.1
<b>Gene Summary:</b>	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 (PubMed:23723238). It is negatively regulated by the upstream amino acid sensors SESN2 and CASTOR1 (PubMed:25457612, PubMed:27487210).[UniProtKB/Swiss-Prot Function]