

## Product datasheet for RC218629

### WDR33 (NM\_018383) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WDR33 (NM_018383) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR33
Synonyms:	NET14; WDC146
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218629 representing NM_018383 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACAGAAATTGGTTCCTCCTCGTTTTTCCATATGCCAAGGTTCCAGCACCAGGCACCTCGAC  
AGCTGTTTTATAAGCGACCTGATTTTGCACAACAGCAAGCAATGCAACAGCTTACTTTTGGAAAACG  
AATGAGAAAAGCTGTGAACCGAAAACCATAGACTACAATCCATCTGTAATTAAGTATTTGGAGAACAGA  
ATATGGCAAAGAGACCAGAGAGATATGCGGGCAATTCAGCCTGATGCAGGTTATTACAATGATCTGGTCC  
CACCTATAGGAATGTTGAATAATCCTATGAATGCAGTAACAACAAAATTTGTTCCGACATCAACAAATAA  
AGTAAAGTGTCCGTATTTGTTGTTAGGTGGACTCCAGAAGGAAGACGCTTGGTCACTGGAGCTTCTAGT  
GGGGAGTTTACCCTGTGGAATGGACTCACTTTCAATTTTAAAACAATATTACAGGCTCACGACAGCCAG  
TGAGGGCCATGACGTGGTACATAATGACATGTGGATGTTGACAGCAGACCACGGAGGATATGTGAATA  
TTGGCAGTCGAACATGAACAACGTCAAGATGTTCCAGGCACATAAGGAGGCGATTAGAGAGGCCAGTTTC  
TCACCCACGGATAATAAATTTGCTACATGCTCTGATGACGGCACTGTTAGAATCTGGGACTTTCTCGTT  
GCCATGAGGAAAGAAATTCCTCGAGGGCATGGTGTGATGTGAAATGTGTAGACTGGCATCCAACCAAGG  
GTTAGTTGTTTTCAGGAAGTAAAGATAGTCAACAGCCAATCAAGTCTGGGATCCCAAGACTGGGCAGAGT  
CTTGCAACACTTCATGCCATAAAAACACAGTAATGGAAGTGAATTAACCTCAATGGCAATGGCTAC  
TCACAGCATCACGTGATCATCTCTGTAACCTTTTGGATATCAGAAACCTAAAAGAAGAGCTTCAAGTCTT  
CCGAGGTCATAAGAAAGAACCCACAGCTGTGGCCTGGCATCCTGTTTCATGAAGGACTTTTTGCCAGTGGA  
GGGTCTGATGGTCTTTGTTATTCTGGCATGTTGGGGTAGAGAAGGAAGTGGTGGGATGGAGATGGCTC  
ACGAAGGGATGATCTGGAGTCTGGCTTGGCATCCTCTGGGCATATTCTCTGCTCAGGCTCAAATGACCA  
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CCTGGAATGTCTGAAGATGGAGTAGAATATGATGACCTCGAACCTAATAGCCTGGCAGTAATTCAGGAA  
TGGGAATACCAGAACAATAAAATAGCTATGGAACAAGAACAGATGGGAAAGATGAATCAAATGAAAT  
TGAAATGACAATCCAGGTTTAGATTGGGAATGGAGGAAGTATGCAAAAGGATCAGAAAAAGTACCT



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CAGAAGAAAGTTCCTTATGCAAAACCCATTCTGCTCAGTTCACGAGGCTTGGATGCAAAAATAAGTTC  
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 GACCACAGGGGGCCAGGGCCCGCCAGGGGTTGCCACGGCCTCAGGACATGCATGGGCCCAAGGAAT  
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 GGTGATGGGCCCGGGCCCTTCAACCAGGAAGGACAGAGCACAGGCCCCCAACCCCTGATACCAGGCC  
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 CCTGAGCATGGGCCGAGAGGGGGCCTTCCGGGTGGCCAGGACTGCAGGGTCCCCCTGATAGCGTG  
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 CCGGTTACGTGAATTTGAGGGGCGAGGAGGACCTTTACCGCAAGAAGAGAAGTGGAGGCGAGGGGGCCT  
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 CGGGGGCATGGGAAGGCCGAGGCCGAGATGAACGTTTCCCGGGATCCCGAGGACCACGTTTTTCG  
 AGGGCGCAGAGAAGAAAGTTTCAGAAGAGGAGCCCGCCGAGGCATGAGGGCCGTCTCCCCCAGAGGA  
 AGGGATGGTTTTCTGGTCTGAAGACTTTGGTCCAGAGGAGAATTTGATGCTTCTGAGGAAGCGGCC  
 GAGGACGAGATCTCAGAGGTCGAGGTCGGGTACCCACGAGGAGGAAGGAAGGGTTTACTTCCACTCC  
 TGACGAGTTCCCTCGCTTTGAAGGAGGGCGGAAGCCAGATTCTGGGATGGAACAGAGAGCCTGGGCCA  
 GGTGATGAACATTTTCGTGATACTCCCGCCCTGATCATCCCCCTCACGACGGTATTCCCAGCCAGCA  
 GAGAACGCTCCTTCTCTCCAAGGCATGGACATGGCATCCCTACCTCCCGAAAAGCGCCCTGGCATGA  
 TGGCCAGGCACTTCTGAGCACAGAGAGATGGAGGCCCAAGGAGGCCCTTCTGAAGACCGAGGAGGCAAA  
 GGCCGAGGGGGCCAGGACCTGCTCAGAGAGTGCCCAAATCTGGGCGTTCAGCTCCTTAGACGGAGAGC  
 ACCACGATGGATACCACAGAGATGAACCTTTGGGGGCCCTCCAGGCAGTGGCACCCCTTCTCGAGGGGG  
 CCGGAGTGGCAGTAACTGGGTAGAGGGAGTAACATGAACTCTGGCCCGGAGGCGAGGAGCTTACCGG  
 GTGGTGAAGGGGTCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218629 representing NM\_018383  
 Red=Cloning site Green=Tags(s)

MATEIGSPRRFFHMPRFQHQAPRQLFYKRPDFAQQQAMQQLTFDGKMRKAVNRKTIIDYNPSVIKYLENR  
 IWQRDQRDMRAIQPDAGYYNDLVPPIGMLNPMNAVTTKFKVVRTSTNKVKCPVVFVVRWTPGRRLLVTGASS  
 GEFTLWNGLTFNFETILQAHDSPVRAMTWSHNDMWMMLTADHGGYVKYQSNMNNVKMFQAHKEAIREASF  
 SPTDNKFATCSDDGTVRIWDFLRCHAEERILRGHGADVCKVDWHPKGLVVSQKSDSQPIKFWDPKGTQS  
 LATLHAHKNTVMEVKLNNGNWLLTASRDHLCKLFDIRNLKEELQVFRGHKKEATAVAWHPVHEGLFASG  
 GSDGSLLFWHVGVKEVGGMEMAHEGMIWSLAWHPLGHILCSGSNDHTSKFWTRNRPDGKMRDRYLNLL  
 PGMSEGDVEYDDLEPNLAVIPGMGIPEQLKLAMEQEOMGKDESNEIEMTIPGLDWGMEEVMQDKQKVP  
 QKKVPIYAKPIPAQFQQAWMQNKVIPAPNEVLNDRKEDIKLEEKKTQAEIEQEMATLQYTNPQLLEQLK  
 IERLAQKQVEQIQPPSSGTPLLGPQFPFGQGPMSQIPQGFQQPHPSQQMPMNAQMGPFGQGFPPG  
 PQGQMGPPQLHQGGGPGQFMGPQGPQGLPRPQDMHGPQGMQRHPGHPGLGPQGGPQGGSSG  
 PQGHMGPQGGPQGHIGPQGGPQGHLPQGGPPTQGMQGGPPRGMQGGPPHPIQGGPGSQIQGP  
 VSQGLMGLNPRGMQGGPPRENQGPAPQGMIMGHPPQEMRGPHPGGLLGHGPQEMRGPQEIIRGMQGGP  
 PQGSMGLPPELQGGPQSGSQGGPQGGSLGPPQGGMGGPQGGQGNPARGPHPSQGPPIPFQQQKTPLL  
 GDGPRAPFNQEGQSTGPPPLIPGLGQQGAQGRIPPLNPGQGGPNKGDGRPPNHHMGMPSERRHEQSGG  
 PEHGPERGPFRRGGQDCRGGPDRRGGPHDFPDDFSRPDDFHPDKRFGRHLREFEGRGGPLPQEEKWRRGGP  
 GPPFPDPHREFSEGDRGAARGPPGAWEGRRPGDERFRPDPEDPRFRGRREEFSRRGAPPRHEGRAPRG  
 RDGFPPEDFGPEENFDASEEAARGDLRGRGRGTPRGGKGLLPTPDEFPRFEGGRKPDSDWGNREPGP  
 GHEHFRDTPRPDHPHDGHSPASRERSSSLQGMASLPPRKRPHWDGPGTSEHREMEAPGGPSEDRGGK  
 GRGGPQAQRVPSGRSSSLDGEHHDGYHRDEPFGGPPSGTSPRGGSGSNWGRGSMNSGPPRRGASR  
 GGGRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



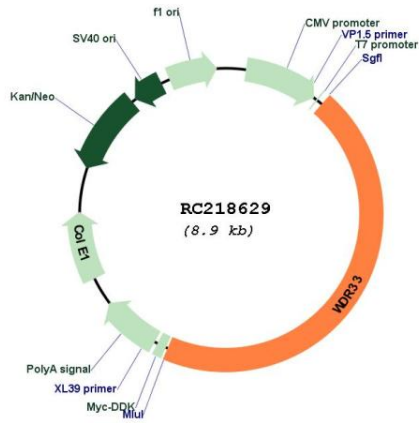
\* The last codon before the Stop codon of the ORF

ACCN: NM\_018383

ORF Size: 4008 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">NM_018383.5</a>
<b>RefSeq Size:</b>	6299 bp
<b>RefSeq ORF:</b>	4011 bp
<b>Locus ID:</b>	55339
<b>UniProt ID:</b>	<a href="#">Q9C0J8</a>
<b>Cytogenetics:</b>	2q14.3
<b>Domains:</b>	WD40, Collagen
<b>Protein Families:</b>	Stem cell - Pluripotency
<b>MW:</b>	145.7 kDa
<b>Gene Summary:</b>	This gene encodes a member of the WD repeat protein family. WD repeats are minimally conserved regions of approximately 40 amino acids typically bracketed by gly-his and trp-asp (GH-WD), which may facilitate formation of heterotrimeric or multiprotein complexes. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. This gene is highly expressed in testis and the protein is localized to the nucleus. This gene may play important roles in the mechanisms of cytodifferentiation and/or DNA recombination. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218629