

Product datasheet for RC229411

WDR6 (NM_018031) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR6 (NM_018031) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC229411 representing NM_018031 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAGCGCGCGCTGGGAAGGCTCGTTCTCGCGAGAGTTCAGCTCCCTTCTAGCCGTGGCTGCC
TCAGCACCTCGAGGATCGACATGGACGCTCTCGAGGACTACGTTTGGCCGCGGGCAACCTCGGAGCTTAT
ACTCCTCCCAGTGACGGGTCTGGAGTGCCTGGGGACCGCTGTTGGCGGGTGGGGTCCCGATGTCCTG
GTGTACAGCTTGGACTTTGGTGGGCATCTGCGGATGATAAAGCGAGTGCAGAACCCTGCTGGCCATATC
TTATCCATGGCTTCCGGGTACGGCCAGAGCCTAATGGAGACCTTGACTTGGAGGCCATGGTGGCTGTGT
TGGAAAGCAAGGGACTCCGAGTTGTGAAAATTAGCTGGGGACAGGGCCACTTCTGGGAGCTTTGGCGCTCT
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GCCACAACCTCAGTGGTGTATATGACCCTGTAGTAGGGTGCATCCTGCAAGAGGTGCCCTGCACAGACAG
GTGCACCCTCTTTCAGCCTGCCTGATTGGAGACGCTGGAAGGAGCTGACCATAGTGGCAGGTGCTGTT
TCCAACCAGCTCTTGGTCTGGTACCCAGCAACTGCCTTAGCAGACAACAAACCTGTAGCACCTGACCAGC
GAATCAGTGGGCATGTGGGCATCATCTCAGCATGTCATACCTGGAAAGCAAGGGATTGCTGGCTACAGC
TTCAGAAGACCGAAGCGTTCGTATCTGGAAGGTGGGCGACCTGCGAGTGCCTGGGGTGGGTGCAGAAT
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GGGACGTGGGATCCGGGCCATAGCTGCCATGAGAGGCAGGCCTGGGTGATCACTGGGGGTGATGACTCA
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GTAGTAGCTTGCCTAGAGATCTCAGCCGACCCTCTGGCAAGGCCATCTTTGTCAAGGAACGTTGTCGGT
ACCTGCTGCCCCAAGCAAGCAGAGATGGCACACATGCAGTGCCTTCTACCCCCAGGTGACTTCTGTT



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GTGTGGTGACCGCCGGGGCTCTGTGCTGCTATCCCTCCAGACCAGGTCTGCTCAAGGACCCTGGGGTG
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 TTGAGGTTTACAACCTGGTATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence:

>RC229411 representing NM_018031
 Red=Cloning site Green=Tags(s)

MGSAARWEGSFSREFSSLLSRGCLSTRIDMDALEDYVWPRATSELILLPVTGLECVGDRLLAGEGPDVL
 VYSLDFGHLRMIKRVQNLGHYLIHGFRVPEPNDLLEAMVAVFGSKGLRVVKISWQGHFWELWRS
 GLWNMSDWIWDARWLEGNIALALGHNSVLYDPVVGICILQEVPCDTRCTLSSACLIGDAWKELTIVAGAV
 SNQLLVWYPATALADNKPVPDRRISGHVGIIFSMSYLESKGLLATASEDRSVRIWKVGDRLVPGGRVQN
 IGHCFGHSARVWQVKLENYLISAGEDCVCLVWSHEGEILQAFRQHQRGIRAIAAHERQAWVITGGDDS
 GIRLWHLVGRGYRGLGVSALCFKSRSRPGTLKAVTLAGSWRLAVTDTGALYLVDVEVKWEQLLEDKHF
 QSYCLLEAAPGPEGFGLCAMANGEGRVKVVPINTPTAAVDQTLFPGKVHSLSWALRGYEELLLLASGPGG
 VVACLEISAAPSGKAIFVKERCERYLLPPSKQRWHTCSAFLPPGDFLVCGDRRGSVLLFSPRPLKDPGV
 GGKARAGAGAPVVGSGSSGGNAFTGLGPVSTLPSLHGKQGVTSVTCHGGYVYTTGRDGAYYQLFVRDQ
 LQPVLQKSCRGMNWLAGLRIVPDGSMVILGFHANEVFWNPRSHEKLHIVNCGGGHRSWAFSDTEAAMA
 FAYLKDGDVMLYRALGGCTRPHVILREGLHGREITCVKRVGTITLGPYGVPSFMQPDLEPGSEGPLT
 DIVITCSEDTTVCVLALEPTTTGSAHALTAVCNHISVRAVAVWIGTPGGPQDPQPLTAHVVSAGGRAE
 MHCFSIMVTPDPSTPSRLACHVMHLSSHRLDEYWRQRNRHRMVKVDPETRYMSLAVCELQDPLGPLVA
 AACSDGAVRLFLLQDSGRILQLLAETFHHKRCVLKVHSFTEAPNQRRRLLCSAATDGS�AFWDLTTML
 DHDSTVLEPPVDPGLPYRLGTPSLTLQAHSCGINSHTLPTREGHHLVASGSEDGSLHVFVLAEMVLE
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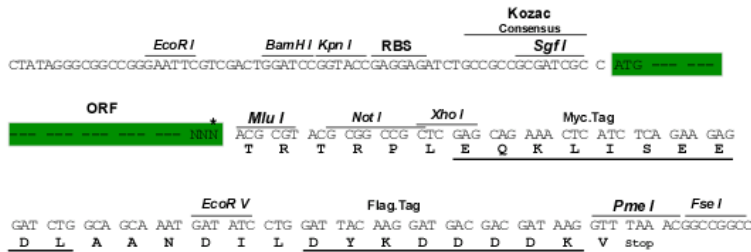
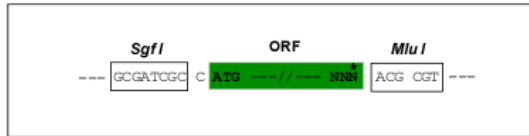
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8035_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



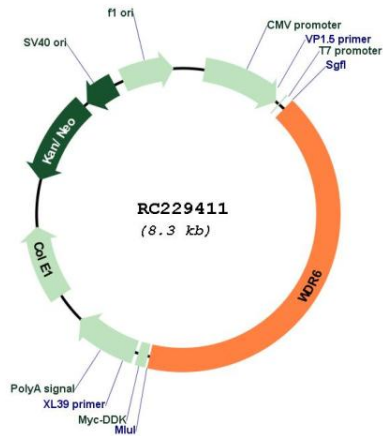
* The last codon before the Stop codon of the ORF

ACCN: NM_018031

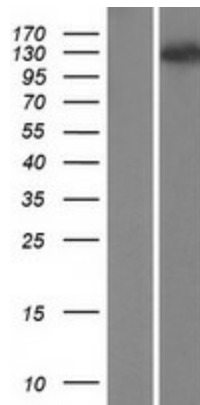
ORF Size: 3453 bp

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:	<ol style="list-style-type: none">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_018031.4 , NP_060501.3
RefSeq ORF:	3366 bp
Locus ID:	11180
UniProt ID:	Q9NNW5
Cytogenetics:	3p21.31
Domains:	WD40
MW:	124.8 kDa
Gene Summary:	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. The encoded protein interacts with serine/threonine kinase 11, and is implicated in cell growth arrest. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC229411



Western blot validation of overexpression lysate (Cat# [LY432420]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229411 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).