

Product datasheet for **RC209654**

WDR45 (NM_007075) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR45 (NM_007075) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WDR45
Synonyms:	JM5; NBIA4; NBIA5; WDRX1; WIPI-4; WIPI4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209654 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCAACAGCCACTTCGAGGAGTGACCAGCCTGCGTTTCAACCAAGACCAAAGCTGCTTTTGTGCG
CCATGGAGACAGGTGTGCGCATCTACAACGTGGAGCCCTTGATGGAGAAGGGGCATCTGGACCACGAGCA
GGTGGGCAGCATGGGCTTGGTGGAGATGCTGCACCGCTCCAACCTTCTGGCCTTGGTGGCGGTGGTAGT
AGTCCCAAGTTCTCAGAGATCTCAGCAGTCTGATCTGGGACGATGCCCGGAGGGCAAGGACTCCAAGG
AGAAGCTGGTGTGGAGTTCACCTTACCAAGCCAGTCTTTCTGTGCGCATGCGCCATGACAAGATCGT
GATCGTGTGAAGAACCGCATCTATGTGTACTCCTTCCCCGACAATCCCCGAAAGCTGTTTGAGTTTGAT
ACCCGGGACAACCCCAAGGGGCTCTGTGACCTCTGCCCCAGCCTGGAGAAGCAACTGCTAGTGTTCCCGG
GACACAAGTGTGGGAGTCTGCAACTTGTGGACCTGGCGAGCACAAAGCCTGGCACCTCGTCTGCTCCATT
CACGATCAATGCACATCAGAGTGACATAGCCTGTGTGTCTCTAAACCAGCCAGGCACTGTAGTGGCTCA
GCCTCCCAGAAGGGTACCCTTATTCGCCTCTTTGACACACAATCCAAGGAGAACTGGTGGAGCTGCGCC
GAGGCACTGACCCTGCCACCCTACTGCATTAACCTCAGCCACGACTCCTCCTTCTCTGCGCTCCAG
TGATAAGGGTACTGTCCATATCTTTGCTCTCAAGGATACCCGCCCTCAACCGCCGCTCCGCGCTGGCTCGC
GTGGGCAAGGTGGGCGCTATGATTGGGCGTACGTGGACTCTCAGTGGAGCCTGGCGAGCTCACTGTGC
CTGCTGAGTCAGCTTGCATCTGCGCCTTCGGTCGCAATACTTCCAAGAAGTCAACTCTGTCAATTGCCAT
CTGCGTAGATGGGACCTTCCACAATATGTCTTCACTCCTGATGGAACTGCAACAGAGAGGCTTTTCGAC
GTGACCTTGACATCTGTGATGATGACTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209654 protein sequence
Red=Cloning site Green=Tags(s)

MTQQPLRGVTS LRFNQDQSCFCCAMETGVRIYNVEPLMEKGHL DHEQVGS MGLVEMLHRSNLLALVGGGS
 SPKFSEISAVLIWDDAREGKDSKEKLVLEFFTKPVL SVRMRHDKIVIVLKNRIYVYSFPDNPRKLF EFD
 TRDNPKGLCDLCP SLEKQLLVFPGHKC GSLQLVDLASTKPGTSSAPFTINAHQSDIACVSLNQPGTVVAS
 ASQKGT LIRLFDTQSKEKLV LRRGTD PATLYCINFSHDSSFLCASSDKGT VHFAL KDTRLNRRSALAR
 VGKVGPMIGQYVDSQWSLASFTVPAESACICAFGRNTSKNVNSVIAICVDGT FHKYVFTPDGNCNREAFD
 VYLDICDDDDF

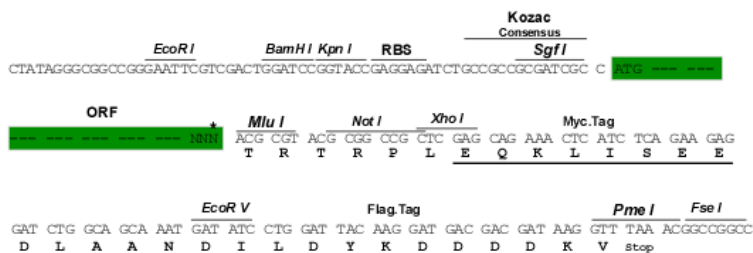
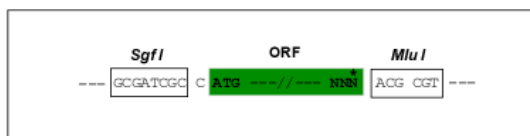
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6556_e08.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_007075

ORF Size: 1083 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_007075.3](#), [NP_009006.2](#)

RefSeq Size: 1925 bp

RefSeq ORF: 1086 bp

Locus ID: 11152

UniProt ID: [Q9Y484](#)

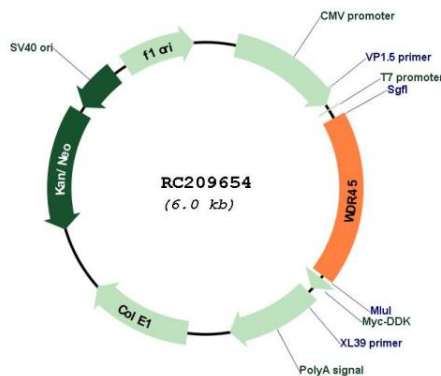
Cytogenetics: Xp11.23

Domains: WD40

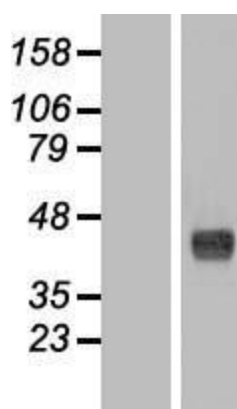
MW: 39.9 kDa

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. Members of this family are involved in a variety of cellular processes, including cell cycle progression, signal transduction, apoptosis, and gene regulation. This gene has a pseudogene at chromosome 4q31.3. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene, but the biological validity and full-length nature of some variants have not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC209654



Western blot validation of overexpression lysate (Cat# [LY416212]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209654 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).