

Product datasheet for **RG201361**

WDR45 (NM_001029896) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR45 (NM_001029896) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WDR45
Synonyms:	JM5; NBIA4; NBIA5; WDRX1; WIPI-4; WIPI4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201361 representing NM_001029896 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCAACAGCCACTTCGAGGAGTGACCAGCCTGCGTTTCAACCAAGACCAAAGCTGCTTTTGTGCG
CCATGGAGACAGGTGTGCGCATCTACAACGTGGAGCCCTTGATGGAGAAGGGGCATCTGGACCACGAGCA
GGTGGGCAGCATGGGCTTGGTGGAGATGCTGCACCGCTCCAACCTTCTGGCCTTGGTGGCGGTGGTAGT
AGTCCCAAGTTCTCAGAGATCTCAGTGTGATCTGGGACGATGCCCGGGAGGGCAAGGACTCCAAGGAGA
AGCTGGTGTGGAGTTCACCTTCAACCAAGCCAGTCTTTCTGTGCGCATGCGCCATGACAAGATCGTGAT
CGTGCTGAAGAACCGCATCTATGTGTACTCCTTCCCGACAATCCCGAAAGCTGTTTGAGTTTGATACC
CGGGACAACCCCAAGGGCTCTGTGACCTCTGCCCCAGCCTGGAGAAGCAACTGCTAGTGTCCCGGGAC
ACAAGTGTGGGAGTCTGCAACTTGTGGACCTGGCGAGCACAAAGCCTGGCACCTCGTCTGCTCCATTAC
GATCAATGCACATCAGAGTGACATAGCCTGTGTCTCTAAACCAGCCAGGCACTGTAGTGGCCTCAGCC
TCCCAGAAGGGTACCCTTATTCGCTCTTTGACACACAATCCAAGGAGAACTGGTGGAGCTGCGCCGAG
GCACTGACCTGCCACCCTCTACTGCATTAACCTCAGCCAGCACTCCTCCTTCTCTGCGCTTCCAGTGA
TAAGGGTACTGTCCATATCTTTGCTCTCAAGGATACCCGCCTCAACCGCCGCTCCGCGCTGGCTCGCGTG
GGCAAGGTGGGCTATGATTGGGCACTACGTGGACTCTCAGTGGAGCCTGGCGAGCTTCACTGTGCCTG
CTGAGTCAGCTTGATCTGCGCCTTCGGTCGCAATACTTCCAAGAACGTCAACTCTGTATTGCCATCTG
CGTAGATGGGACCTTCCACAAATATGTCTTCACTCCTGATGGAACTGCAACAGAGAGGCTTTTCGACGTG
TACCTTGACATCTGTGATGATGACTTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201361 representing NM_001029896
 Red=Cloning site Green=Tags(s)

MTQQPLRGVTS LRFNQDQSCFCCAMETGVRIYNVEPLMEKGHL DHEQVGS MGLVEMLHRSNLLALVGGGS
 SPKFSEISVLIWDDAREGKDSKEKLVLEFFTKPVL SVRMRHDKIVIVLKNRIYVYVSPDNPRKLF EFD T
 RDNPKGLCDLCP SLEKQLLVFPGHKCGSLQLVDLASTKPGTSSAPFTINAHQSDIACVSLNQPGTVVASA
 SQKGT LIRLFD TQSKELVELRRGTD PATLYCINFSHDSSFLCASSDKGTVHIFALKDTRLNRRSALARY
 GKVGPMIGQYVDSQWSLASFTVPAESACICAFGRNTSKNVNSVIAICVDGTFHKYVFTPDGNCNREAFDV
 YLDICDDDDF

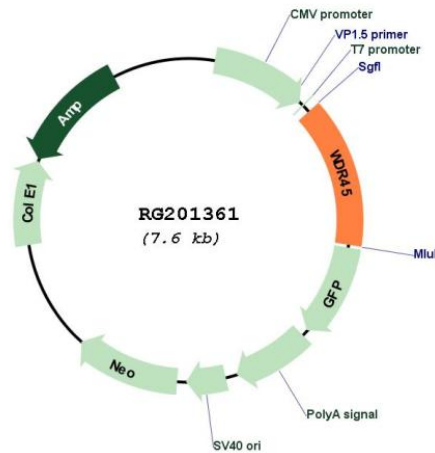
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001029896

ORF Size:	1080 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_001029896.2
RefSeq Size:	1655 bp
RefSeq ORF:	1083 bp
Locus ID:	11152
UniProt ID:	Q9Y484
Cytogenetics:	Xp11.23
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]