

Product datasheet for **RG208114**

WDR5B (NM_019069) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WDR5B (NM_019069) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	WDR5B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208114 representing NM_019069 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACCAAGGAGTCAAGAGACGCCAAAGCACAGTTGGCCCTCTCCTCATCGGCAATCAGAGCAAGG
AAGTGCTGAAACCCAACTATGCTCTCAAATGTACTCTTGTGGGACACACGGAAGCAGTGTATCAGT
TAAGTTTAGTCCTAATGGAGAATGGCTAGCAAGTTCTTCTGCTGATAGGCTAATCATAATTTGGGGAGCA
TATGATGGAAAAATAGAGAAACACTCTATGGTCATAATTTGAAATATCGGATGTTGCCTGGTCATCAG
ATTCCAGTCGTCTTGTCTTCTGCCTCAGATGATAAACTCTAAATTTATGGGATGTGAGATCTGAAAAATG
TTTGAAACACTGAAGGGGCACAGTAATTATGTCTTTTGTGTAACCTCAATCCGCCATCCAACCTTATA
ATCTCGGGATCTTTGATGAGACTGTAAAAATATGGGAGGTGAAAAACAGGAAAGTGTCTCAAGACTTTGT
CTGCTCATTCTGACCCAGTTTCTGCTGTTCAATTTAATTGTAGTGGGTCCTTGATAGTGTGAGGTAGCTA
TGATGGCCTCTGTAGAATCTGGGATGCTGCATCAGGTCAGTGTGTTAAAAACGCTCGTTGATGACGATAAC
CCTCCTGTCTCTTTGTAAAAATTTCTCCAAATGGTAAATACATTCTCACTGCAACTTTGGACAACACTC
TAAACTATGGGATTATAGCAGAGGCAGGTGCCTGAAAACATACACTGGTCATAAGAATGAGAAATATTG
CATATTTGCCAATTTTTCAGTTACTGGTGGAAAGTGGATTGTGTCTGGTCCGAGGATAACCTGGTTTAC
ATTTGGAACCTTCAGACTAAAGAGATTGTGCAGAAATTACAAGGCCATACAGATGTTGTGATCTCAGCAG
CTTGTCATCCTACAGAAACCTCATCGCATCAGCAGCATTAGAAAATGACAAAACAATTAACCTGTGGAT
GAGTAACCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG208114 representing NM_019069
 Red=Cloning site Green=Tags(s)

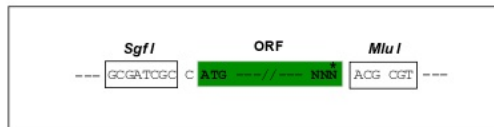
MATKESRDAKQLALSSSANQSKEVPENPNYALKCTLVGHTEAVSSVKFSPNGEWLASSADRLIIIWGA
 YDGKYEKTLYGHNLEISDVAVSSDSSRLVSADDKTLKLDVRSKGKCLKTLKGHSNYVFCNFPNPSNLI
 ISGSFDETVKIWEVKTKGCKLTLAHSDPVSAVHFNCSSGLIVSGSYDGLCRIWDAASGQCLKTLVDDDN
 PPVSFVKFSPNGKYILTATLDNTLKLWDYSRGRCLKTYTGHNKCYCIFANFSVTGGKWIIVSGSEDNLVY
 IWNLTKEIVQKLQGHTDVVISAACHPTENLIASAALENDKTIKLWMSN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGGCGGCGGAATTCGTCGACTGGATCCGGTACCGAGAGATCTGCCGCCGATCGCCGGCGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACGACGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGAGCT

- - - E E R V Stop

PmeI FseI

ACCN: NM_019069

ORF Size: 990 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_019069.4](#)

RefSeq Size: 4183 bp

RefSeq ORF: 993 bp

Locus ID: 54554

UniProt ID: [Q86VZ2](#)

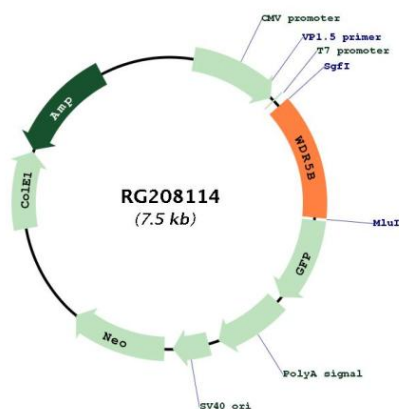
Cytogenetics: 3q21.1

Domains: WD40

Protein Families: Druggable Genome

Gene Summary: This intronless gene encodes a protein containing several WD40 repeats. WD repeats are approximately 30- to 40-amino acid domains containing several conserved residues, including a trp-asn at the C-terminal end. The encoded protein may mediate protein-protein interactions. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208114