

Product datasheet for **MG205521**

Wdr45 (NM_172372) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr45 (NM_172372) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wdr45
Synonyms:	C79260; DXlmx38e; JM5; Sfc19; Wdrx1; WIPI-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205521 representing NM_172372 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCAGCAGCCACTTCGAGGTGTGACCAGCCTACATTTCAACCAAGACCAAAGCTGCTTTTGTGCG
CCATGGAGACAGGCGTCCGGATCAATGTGGAGCCACTTATGGAGAAGGGCATCTTGACCACGAGCA
GGTAGGCAGCGTGGCCCTGGTAGAGATGCTGCACCGATCCAACCTGCTGGCCCTGGTGGCGGTGGGAGC
AGCCCCAAGTTCTCTGAGATCTCAGTGTGATCTGGGACGATGCCCGAGAAGGCAAGGACTCCAAGGACA
AACTGGTGTGGAGTTCACCTTCAACCAAGCCAGTGTGGCTGTGCGCATGCGCCATGACAAGATCGTGAT
TGTGCTGAGGAACCGCATCTATGTGTACTCCTTCCCTGACAGTCCAAGAAAGCTGTTTGAGTTTGACT
CGGGACAACCCCAAGGGCTGTGTGACCTCTGTCCAAGCCTGGAGAAGCAGCTGCTCGTGTTCCTGGAC
ACAAGTGTGGAAGTCTGCAACTGTGGATCTCGCAAGCACAAAGCCTGGTACTTCGTCGGCGCCATTAC
TATCAATGCACATCAGAGTGTGGCCTGTGTCCCTGAACCAGCCAGGCACTGTAGTGGCGTCAGCC
TCCCAGAAGGGCACCCCTTATTCGCTCTTTGATACCCAATCCAAGGAAAAGCTGGTAGAGCTTGAAGAG
GCACCGACCCTGCCACCCTGACTGCATTAACCTCAGCCAGGACTCCTCCTTCTGTGCTTCCAGTGA
CAAGGGCACTGTCCACATCTTCGCTCTTAAGACACCCGCCTTAACCGCCGCTCTGCGCTGGCTCGTGTG
GGCAAAGTGGACCTATGATTGGCAATACGTGGACTCTCAGTGGAGCCTGGCCAGCTTTACTGTGCCTG
CTGAGTCAGCCTGCATCTGCGCCTTGGTCGAAATACTTCCAAGAATGTCAATTCTGTAATTGCCATCTG
TGTAGATGGGACCTTCCACAAATATGTCTTCACTCCTGATGGAAACTGCAACAGAGAGGCCCTTTGACGTG
TACCTTGACATCTGTGATGACGAGGACTTC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205521 representing NM_172372
 Red=Cloning site Green=Tags(s)

MTQQPLRGVTSLHFNQDQSCFCCAMETGVRIYNVEPLMEKGHLDEQVGSVGLVEMLHRSNLLALVGGGS
 SPKFSEISVLIWDDAREGKDSKDKLVLEFFTKPVLAVRMRHDKIVIVLRNRIYVYSPDSRKLFEFDT
 RDNPKGLCDLCPGLEKQLLVFPGHKCGSLQLVDLASTKPGTSSAPFTINAHQSDVACVSLNQPPTVVASA
 SQKGTLIRLFDTSKEKLVLRGTDPATLYCINFSDSSFLCASSDKGTVHIFALKDTRLNRRSALARY
 GKVGPMIGQYVDSQWSLASFTVPAESACICAFGRNTSKNVNSVIAICVDGTFHKYVFTPDGNCNREAFDV
 YLDICDDEDF

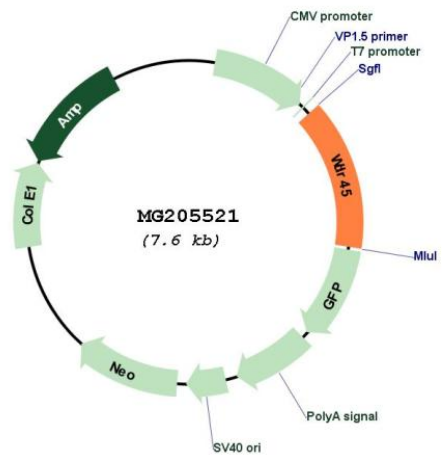
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172372

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_172372.2 , NP_758960.1
RefSeq Size:	1582 bp
RefSeq ORF:	1083 bp
Locus ID:	54636
UniProt ID:	Q91VM3
Cytogenetics:	X 3.48 cM
Gene Summary:	Component of the autophagy machinery that controls the major intracellular degradation process by which cytoplasmic materials are packaged into autophagosomes and delivered to lysosomes for degradation. Activated by the STK11/AMPK signaling pathway upon starvation, WDR45 is involved in autophagosome assembly downstream of WIPI2, regulating the size of forming autophagosomes. Probably recruited to membranes through its PtdIns3P activity. [UniProtKB/Swiss-Prot Function]