

Product datasheet for MR205521

Wdr45 (NM_172372) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr45 (NM_172372) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wdr45
Synonyms:	C79260; DXlmx38e; JM5; Sfc19; Wdrx1; WIPI-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205521 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCAGCAGCCACTTCGAGGTGTGACCAGCCTACATTTCAACCAAGACCAAAGCTGCTTTTGTGCG
CCATGGAGACAGGCGTCCGGATCAACAATGTGGAGCCACTTATGGAGAAGGGGCATCTTGACCACGAGCA
GGTAGGCAGCGTGGCCCTGGTAGAGATGCTGCACCGATCCAACCTGCTGGCCCTGGTGGCGGTGGGAGC
AGCCCCAAGTTCTCTGAGATCTCAGTGTGATCTGGGACGATGCCCGAGAAGGCAAGGACTCCAAGGACA
AACTGGTGTGGAGTTCACCTTCAACAAGCCAGTGTGGCTGTGCGCATGCGCCATGACAAGATCGTGAT
TGTGCTGAGGAACCGCATCTATGTGTACTCCTCCCTGACAGTCCAAGAAAGCTGTTTGTGTTGACT
CGGGACAACCCCAAGGGCTGTGTGACCTCTGTCCAAGCCTGGAGAAGCAGCTGCTCGTGTTCCTGGAC
ACAAGTGTGGAAGTCTGCAACTGTGGATCTCGCAAGCACAAAGCCTGGTACTTCGTCGGCGCCATTAC
TATCAATGCACATCAGAGTGTGGTGTGTCCCTGAACCAGCCAGGCACTGTAGTGGCGTCAGCC
TCCCAGAAGGGCACCCCTATTCTGCTCTTTGATACCCAATCCAAGGAAAAGCTGGTAGAGCTTCAAGAG
GCACCGACCCTGCCACCCTGTACTGCATTAACCTCAGCCAGCACTCCTCCTTCTGTGCTTCCAGTGA
CAAGGGCACTGTCCACATCTTCGCTCTTAAGACACCCGCCTTAACCGCCGCTCTGCGCTGGCTCGTGTG
GGCAAAGTGGGACCTATGATTGGGCAATACGTGGACTCTCAGTGGAGCCTGGCCAGCTTTACTGTGCCTG
CTGAGTCAGCCTGCATCTGCGCCTTTGGTCGAAATACTTCCAAGAATGTCAATTCTGTAATTGCCATCTG
TGTAGATGGGACCTTCCACAAATATGTCTTCACTCCTGATGGAAACTGCAACAGAGAGGCCCTTTGACGTG
TACCTTGACATCTGTGATGACGAGGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205521 protein sequence
 Red=Cloning site Green=Tags(s)

MTQQPLRGVTSLHFNQDQSCFCCAMETGVRIYNVEPLMEKGHL DHEQVGSVGLVEMLHRSNLLALVGGGS
 SPKFSEISVLIWDDAREGKDSKDKLVLEFFTKPVLAVRMRHDKIVIVLRNRIYVVSFPDSPRKLFEFDT
 RDNPKGLCDLCP SLEKQLLVFPGHKCGSLQLVDLASTKPGTSSAPFTINAHQSDVACVSLNQPGTVVASA
 SQKGT LIRLFDTSKEKLVELRRGTD PATLYCINF SHDSSFLCASSDKGTVHIFALKDTRLNRRSALARY
 GKVGPMIGQYVDSQWSLASFTVPAESACICAFGRNTSKNVNSVIAICVDGTFHKYVFTPDGNCNREAFDV
 YLDICDDEDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_172372

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_172372.2](#), [NP_758960.1](#)

RefSeq Size: 1597 bp

RefSeq ORF: 1083 bp

Locus ID: 54636

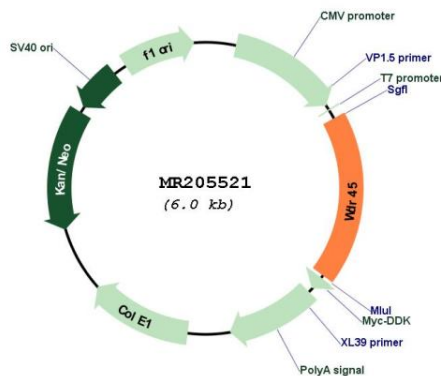
UniProt ID: [Q91VM3](#)

Cytogenetics: X 3.48 cM

MW: 39.8 kDa

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]

Product images:



Circular map for MR205521