

Product datasheet for **MC227272**

Wdr45 (NM_001290792) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wdr45 (NM_001290792) Mouse Untagged Clone
Tag: Tag Free
Symbol: Wdr45
Synonyms: C79260; DXImx38e; JM5; Sfc19; Wdrx1; WIPI-4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227272 representing NM_001290792
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTCAGCAGCCACTTCGAGGTGTGACCAGCCTACATTTCAACCAAGACCAAAGCTGCTTTTGTGCGC
 CCATGGAGACAGGCGTCCGGATCTACAATGTGGAGCCACTTATGGAGAAGGGGCATCTTGACCACGAGCA
 GGTAGGCAGCGTGGCCCTGGTAGAGATGCTGCACCGATCCAACCTGCTGGCCCTGGTGGCGGTGGGAGC
 AGCCCCAAGTTCTCTGAGATCTCAGTGCTGATCTGGGACGATGCCCGAGAAGGCAAGGACTCCAAGGACA
 AACTGGTGTGGAGTTCACCTTCAACCAAGCAGTGTGGCTGTGCGCATGCGCCATGACAAGATCGTGAT
 TGTGCTGAGGAACCGCATCTATGTGACTCCTTCCCTGACAGTCCAAGAAAGCTGTTTGTGAGTTTGACT
 CGGGACAACCCCAAGGGGCTGTGTGACCTCTGTCCAAGCCTGGAGAAGCAGCTGCTCGTGTTCCTGGAC
 ACAAGTGTGGAAGTCTGCAACTGTGGATCTCGCAAGCACAAAGCCTGGTACTTCGTGGCGCCATTAC
 TATCAATGCACATCAGAGTGTGGCCTGTGTCCCTGAACCAGCCAGGCACTGTAGTGGCGTCAGCC
 TCCAGAAGGGCACCCCTTATTCGTCTCTTTGATACCCAATCCAAGGAAAAGCTGGTAGAGCTTCGAAGAG
 GCACCGACCCTGCCACCCTGACTGCATTAACCTCAGCCAGCACTCCTCCTTCTGTGCTTCCAGTGA
 CAAGGGCACTGTCCACATCTTCGCTCTTAAGACACCCGCTTAACCGCCGCTCTGCGCTGGCTCGTGTG
 GGCAAAGTGGGACCTATGATTGGCAATACGTGGACTCTCAGTGGAGCCTGGCCAGCTTTACTGTGCCTG
 CTGAGTCAAGCCTGCATCTGCGCCTTTGGTCAAACTTCCAAGAATGTCAATTCTGTAATTGCCATCTG
 TGTAGATGGGACCTTCCACAAATATGTCTTCACTCCTGATGGAACTGCAACAGAGAGGCCCTTTGACGTG
 TACCTTGACATCTGTGATGACGAGGACTCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290792



[View online »](#)

Insert Size:	1083 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001290792.1, NP_001277721.1</u>
RefSeq Size:	1601 bp
RefSeq ORF:	1083 bp
Locus ID:	54636
UniProt ID:	<u>Q91VM3</u>
Cytogenetics:	X 3.48 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1, 2, and 3 encode isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>