

Product datasheet for RN209129

Wdr45 (NM_001013958) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wdr45 (NM_001013958) Rat Untagged Clone
Tag: Tag Free
Symbol: Wdr45
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN209129 representing NM_001013958
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTCAGCAGCCACTTCGAGGTGTGACCAGCCTCCATTTCAACCAAGACCAAAGCTGCTTTTGCTGTG
 CCATGGAGACAGGTGTACGGATCTACAATGTGGAACCACTGATGGAGAAAGGGCATCTTGACCACGAGCA
 GGTAGGCAGCGTGGGCCCTGTAGAGATGCTGCACCGATCCAACCTGCTGGCCCTGGTGGGCGGTGGTAGC
 AGCCCCAAGTTCTCCGAGATCTCGGTGCTGATCTGGGACGATGCCCGAGAAGGCAAGGACTCCAAGGACA
 AACTGGTCTGGAGTTCACCTTCAACCAAGCCAGTGTAGCTGTGCGAATGCGCCATGACAAGATTGTGAT
 TGTGCTGAGGAACCGCATCTATGTGTAACCTTCCCTGACAACCTCGGAAGCTGTTGAGTTTGACACT
 CGGGACAACCCCAAGGGGCTGTGTGACCTCTGCCAAGCCTGGAGAAGCAGCTGCTTGTGTTTCCTGGAC
 ACAAGTGTGGAAGTCTGCAACTTGTGTCCAAGGAAAAGCTGGTAGAGCTTGAAGAGGCACTGACCTGC
 CACCCTATACTGCATTAACCTCAGCCATGACTCCTCCTCCTGTGCTTCCAGTGACAAGGGCACTGTG
 CATATCTTTGCTCTAAAGACACCCGCCTAACC GCCGCTCTGCGTTGGCACGTGTGGGCAAAGTGGGAC
 CTATGATTGGGAATACGTGGATTCTCAGTGGAGCCTGGCCAGCTTTACTGTGCCTGCTGAGTCAGCCTG
 CATCTGCGCCTTTGGTCGAAATACTTCCAAAAACGTCAATTCTGTAATCGCCATCTGCGTAGATGGGACC
 TTCCACAAATATGTCTTCACTCCTGATGGAACACTGCAACAGAGAGCCTTTGACGTGACCTTGACATCT
 GTGATGACGATGACTTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
ACCN: NM_001013958
Insert Size: 930 bp



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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).
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_001013958.1</u> , <u>NP_001013980.1</u>
RefSeq Size:	1478 bp
RefSeq ORF:	930 bp
Locus ID:	302559
UniProt ID:	<u>Q5U2Y0</u>
Cytogenetics:	Xq12
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 (PubMed:21802374). 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]