

Product datasheet for **RR209129**

Wdr45 (NM_001013958) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wdr45 (NM_001013958) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wdr45
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209129 representing NM_001013958 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTCAGCAGCCACTCGAGGTGTGACCAGCCTCCATTTCAACCAAGACCAAAGCTGCTTTTGCTGTG
CCATGGAGACAGGTGTACGGATCTACAATGTGGAACCACTGATGGAGAAAGGGCATCTTGACCACGAGCA
GGTAGGCAGCGTGGCCCTGTAGAGATGCTGCACCGATCCAACCTGCTGGCCCTGGTGGCGGTGGTAGC
AGCCCCAAGTTCTCCGAGATCTCGGTGCTGATCTGGGACGATGCCCGAGAAGGCAAGGACTCCAAGGACA
AACTGGTGTGGAGTTCACCTTCACCAAGCCAGTCTAGCTGTGCGAATGCGCCATGACAAGATTGTGAT
TGTGCTGAGGAACCGCATCTATGTGACTCCTTCCTGACAACCCTCGGAAGCTGTTTGAGTTTGACT
CGGGACAACCCCAAGGGCTGTGTGACCTCTGCCAAGCCTGGAGAAGCAGCTGCTTGTGTTTCCTGGAC
ACAAGTGTGGAAGTCTGCAACTGTGTCCAAGGAAAAGCTGGTAGAGCTTGAAGAGGCACTGACCCTGC
CACCTATACTGCATTAACCTCAGCCATGACTCCTCCTCCTCTGTGCTTCCAGTGACAAGGCACTGTC
CATATCTTTGCTCTTAAGACACCCGCCTTAACCGCCGCTCTGCGTTGGCAGTGTGGGCAAAGTGGGAC
CTATGATTGGGCAATACGTGGATTCTCAGTGGAGCCTGGCCAGCTTTACTGTGCCTGCTGAGTCAGCCTG
CATCTGCGCCTTTGGTCGAAATACTTCCAAAAAGTCAATTCTGTAATCGCCATCTGCGTAGATGGGACC
TTCCACAAATATGTCTTCACTCCTGATGAAAAGTCAACAGAGAGGCCTTTGACGTGTACCTTGACATCT
GTGATGACGATGACTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	927 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_001013958.1 , NP_001013980.1
RefSeq Size:	1478 bp
RefSeq ORF:	930 bp
Locus ID:	302559
UniProt ID:	Q5U2Y0
Cytogenetics:	Xq12
MW:	34.6 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 (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]