

Product datasheet for **RN211157**

Wdyhv1 (NM_001025024) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wdyhv1 (NM_001025024) Rat Untagged Clone
Tag: Tag Free
Symbol: Wdyhv1
Synonyms: RGD1311362
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN211157 representing NM_001025024
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGGGGACAGCCGCGCCGCCACGGCCTCGCAGTACCAGCCGGCCTGCCCTACGCGGGACGCATGTG
 TCTACAGCAGCTGCTATTGTGAGGAAAACATTTGGAAGCTCTGTGAATACATCAAAACACACAACCAGTA
 TCTGTTGGAGGAGTGCTACGCTGTCTTCATATCGAATGAGAAGAAGATGGTACCTATTTGGAAACAGCAG
 GCAAGACCTGAGAATGGACCTGTGATCTGGGATTATCATGTCGTTCTGCTTCATGTGCAAGGGAAGGAC
 AGAGCTTCATTTATGACCTTGATACTATTTTGCCATTTCCCTGCCCTTTGACATTTACATAGAAGATGC
 CCTTAAGTCTGATGATGACATTCACACAGTTTAGGAGGAAATTCAGAGTGGTTCTGCTGACTCCTAC
 TTGAAGAACTTTGCTTCTGACCGGTCTCACATGAAGGACTCGAGTGGGAACTGGAGAGAGCCCCCTCCAG
 AGTACCCCTGCATTGAACTGGAGACTCCAAAATGAACCTGAACGACTTCATCAGCATGGACCCTGCAGT
 AGGATGGGGAGCTGTCTACACGCTGTCTGAGTTTGTACATCGGTTTCAGCAGCAAAAAC**ACTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001025024
Insert Size: 624 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_001025024.1, NP_001020195.1</u>
RefSeq Size:	1442 bp
RefSeq ORF:	624 bp
Locus ID:	362914
UniProt ID:	<u>Q5BJV9</u>
Cytogenetics:	7q33
Gene Summary:	Mediates the side-chain deamidation of N-terminal glutamine residues to glutamate, an important step in N-end rule pathway of protein degradation. Conversion of the resulting N-terminal glutamine to glutamate renders the protein susceptible to arginylation, polyubiquitination and degradation as specified by the N-end rule. Does not act on substrates with internal or C-terminal glutamine and does not act on non-glutamine residues in any position. Does not deaminate acetylated N-terminal glutamine. With the exception of proline, all tested second-position residues on substrate peptides do not greatly influence the activity. In contrast, a proline at position 2, virtually abolishes deamidation of N-terminal glutamine. [UniProtKB/Swiss-Prot Function]