

## Product datasheet for **MR226441**

### Usp30 (NM\_001033202) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Usp30 (NM_001033202) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp30
Synonyms:	6330590F17Rik; AI851327; D5Ert483e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226441 representing NM\_001033202  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTAAGTTCGGGGCGAGGCGGCGAGGACGGCGGCCACAAGCCCTGCAGCGCTTCTGCGCACCG  
 GGGCGGCCGTGAGATACAAAGTCATGAAGAACTGGGGAGTGATCGGTGGGATTGCCGCTGCCTGGCAGC  
 AGGGATCTATGTTATTTGGGGTCCCATACAGAGAGGAAGAAGCGGAGAAAAGGGCTTGTGCCTGGCCTT  
 GTCAATCTGGGAATACCTGCTTCATGAACTCGCTGCTGCAGGGCCTGTCTGCCTGCCCTGCGTTTGTCA  
 AGTGGCTGGAAGAGTTTACCACCCAGTACTCCAGGGACCAGCAGGGGCCACACACTACCAGTGCCTGTC  
 CTTAACTGCTGAACCTCCTGAAAGCTGTCTGCTGCCAAGAAGTCACCGAGGACGAGGTCTTGACGCC  
 AGCTGTCTGCTGGACGCTCTGAGAATGTACAGATGGCAGATCTCGTCCTTTGAGGAGCAGGATGCTCACG  
 AGCTGTTTCATGTCATCACCTCATCTACTGGAGGACGAGAGAGACCAGCCAGCTCGAGTCAACCACTGTT  
 TGATGTGATTCCCTGGAGCAGCAGTCAAGAAATGGCTCCAGACAAGTCACTTGCACACGAGAGGGTCC  
 CCTCACCCACGACCAATCACTGGAAGTCTCAGCACCTTTCCATGGAAGACTCACCAAGTAAATGGTGT  
 GCAAACACTGTGAACACCAGAGTCTGTTTCGGTTTGACACCTTTGACAGCCTTCTCTCAGTATCCAGC  
 TGCCACTTGGGGGACCCACTGACACTGGACACTGCCTTACCACCTTCACTCATCAGAGTCCGTGCGA  
 GACGTTGTGTGTGACAACTGTACAAAGATTGAAGCGAGGGGGACACTGACCGGGGAGAAGGTGGAGCATC  
 AGAGGAGCACCTTTGTTAAACAGTTAAACTCGGAAAGCTGCCACAGTGCCTCTGCATCCACCTGCAGCG  
 GCTCAGCTGGTCCAGCCACGGCACGCCCTTGAAGCGGCACGAGCAGTGCAGTTTAAAGATTCTGATG  
 ATGGACTTCTACAAGTACCGCTCCTGGGACACAAGCCAGCCAGCATGGCCCAAAGCCACCGAGAACC  
 CAGGGTCTGCCCCAGAAGTACAGGACGACAGGGCGGCCCAAAGCCAGGTCTGAGTCAGCCAGGGGCCCC  
 CAAGACACAGATTTTTCTGAATGGCGCCTGCTCCCGTCTCTGTTGCCAGCCTGCCTTCCCGGTGGCC  
 TTCCCTCTGCCAGTGGTTCCTGACTACAGCTCCTCCACATACCTTCCGCTTGATGGCAGTTGTGCTTC  
 ACCATGGAGACATGCACTCTGGACACTTTGTCACCTACAGACGGTACCACCTTCTGCCAAGAACCCTCT  
 CTAACCAGCAACCAATGGCTGTGGATTCTGACGACACCGTCCGCAAGGCCAGCCTGCAGGAGTCTCTG  
 TCCTCTAGTGCCTACCTGCTGTTCTATGAGCGAGTCTGTCCAGGGTGCAGCAGCAGGGGCGAGAGTATA  
 GGTCTGAGGAG

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226441 representing NM\_001033202  
 Red=Cloning site Green=Tags(s)

MLSSRAQAARTAADKALQRFLRTGAAVRYKVMKNWGVIGGIAAALAAGIYVIWGPITERKKRRKGLVPGL  
 VNLGNTCFMNSLLQGLSACPAFVKWLEEFTTQYSRDQGPHTHQCLSLTLLNLLKALSCQEVTEDEVLDA  
 SCLLDVLRMYRWQISSFEEQDAHEL FHVITSSLEDRDRQPRVTHLFDVHSLEQQSEMAPRQVTCHTRGS  
 PHPTTNHWKSQHPFHGRLTSMVCKHCEHQSPVRFDTFDSL SLSIPAATWGHPLTDHCLHFFISSESVR  
 DVVCDNCKIEARGTLTGEKVEHQSTFVKQLKGLKLPQCLCIHLQRLSWSSHGTP LKRHEHVQFNEFLM  
 MDFYKYRLLGHKPSQHGP KATENPGSAPEVQDAQAAPKPLSQPGAPKTQIFLNGACSPSLLPALPSPVA  
 FPLPVVPDYSSSTYLFR LMAVVVHHGDMHSGHFV TYRRSPPSAKNPLSTSNQWLWISDDTVRKASLQEV  
 SSSAYLLFYERVL SRVQQQGREYRSEE

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1553\\_e11.zip](https://cdn.origene.com/chromatograms/ja1553_e11.zip)

**Restriction Sites:**

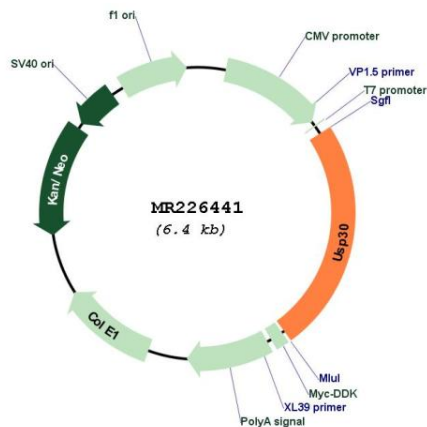
SgfI-MluI



**MW:** 58.7 kDa

**Gene Summary:** Deubiquitinating enzyme tethered to the mitochondrial outer membrane that acts as a key inhibitor of mitophagy by counteracting the action of parkin (PRKN): hydrolyzes ubiquitin attached by parkin on target proteins, such as RHOT1/MIRO1 and TOMM20, thereby blocking parkin's ability to drive mitophagy. Preferentially cleaves 'Lys-6'- and 'Lys-11'-linked polyubiquitin chains, 2 types of linkage that participate in mitophagic signaling. Does not cleave efficiently polyubiquitin phosphorylated at 'Ser-65' (By similarity). Acts as negative regulator of mitochondrial fusion by mediating deubiquitination of MFN1 and MFN2 (PubMed:24513856).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226441