

Product datasheet for **RR213092**

Usp30 (NM_001107153) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp30 (NM_001107153) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usp30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR213092 representing NM_001107153
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAGTTCGGGGCGAGGCGGCGAGGACAGCGGCCACAAGCCCTCCAGCGTTCCTGCGCACCG
 GGGCGGCTGTGAGATACAAAGTCATGAAGAACTGGGGAGTGATCGGTGGAATTGCTGCTGCTTTCAGC
 AGGAATATATGTTATCTGGGGTCCCATACAGAGAGGAAGAAGCGGAGAAAAGGGCTTGTGCCTGGCCTT
 GCAACTTGGGGAACACCTGCTTCATGAACTCCCTGCTGCAGGGTTTGTCTGCCTGCCCCGCTTTGTCA
 AGTGGCTGGAGGAGTTTACCACCCAGTACTCCAGGGACCAGCAGGGGCCACACACACCAGTGCCTGTC
 CTTGACACTGCTGAGCCTCCTGAAAGCTCTGCTCCTGCAAGAAGTCACTGAGGAAGAGGTCTTGACGCC
 AGCTGCCTGCTGGACGTCCTGAGAATGTACCGGTGGCAGATCTCGTCCTTTGAGGAGCAGGATGCTCACG
 AACTGTTCCATGTCATCACCTCATCCCTGGAGGACGAGCGGGACCAGCCAGCCTCGGGTACCACCTGTT
 TGATGTGCACTCCCTGGAGCAGCAGTCAGAAATGGCTCCAGACAAGTCACTGCCACACGAGAGGGTCC
 CCTCACCCACGACCAATCCCTGGAAGTCTCAGCACCCCTTCCATGGGAGGCTCAGCAGTAACATGGTGT
 GCAAGCACTGTGAGCACCAGAGCCCTGTTCCGGTTTGACACCTTTGATAGCCTTCCCTCAGTATCCAGC
 TGCTACTTGGGGGACCCACTGACACTGGACCACTGCCTTACCACCTTCACTCATCCGAGTCGGTGCGA
 GACGTTGTGTGACAACGTGACAAAGATTGAAGCAAAAGGGACCCAGAACGGGAAAAGGTGGAGCACC
 AGAGGACCACTTTCGTTAAACAGTTAAAGCTAGGAAAGCTGCCACAGTGCCTCTGCATCCACCTGCAGCG
 GCTCAGCTGGTCCAGCAAGGCACGCCCTTGAAGCGGCATGAGCAGTGCATTTAACGAGTTCCTGATG
 ATGGACTTCTACAAGTACCGCTCCTGGGACATAAACCAGCCAGCATGGCCCAAGCCACTGAGAGCC
 CAGGGTCTGCCCTGGGAGTACAGGACACACAGGCGGCCCGAAGCCAGGTCTGAGTCAGCCAGCGGCCCC
 CAAGACACAGTTTTTTATGAATGGCGCCTGCTCCCGTCTTTGTTGCCAGCCTGCCTTCTCCGATGGCT
 TTCCCTCTACCAGTGGCTCCTGACTACAGCTCCTCCATGTACCTTTCGCTTGTGTCAGTTGTGCTCC
 ACCATGGAGACATGCACTCTGGACACTTTGTCACCTACAGACGGTACCACCTTCTGCCAAGAACCCTCT
 CTAACCAGCAACCAGTGGCTGTGGATTTCCGATGACTGTCCGAAAGGCCAGCCTGCAGGAGTCTCTG
 TCCTCTAGTGCCTACCTGCTTCTATGAGCGAGTCTGTCCAGGGTGCAGCAGCAGGGGCGAGAGTACA
 GGTCAGAGGAG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213092 representing NM_001107153
 Red=Cloning site Green=Tags(s)

MLSSRAQAARTAADKALQRFLRTGAAVRYKVMKNWGVIGGIAAALAAGIYVIWGPITERKKRRKGLVPGL
 VNLGNTCFMNSLLQGLSACPAFVKWLEEFYQYSRDQGGPHHQCLSLTLLSLLKALSCQEVTEEEVLD
 SCLLDVLRMYRWQISSFEEQDAHEL FHVITSSLEDERDRQPRVTHLFDVHSLEQQSEMAPRQVTCHTRGS
 PHPTTNPWKSQHPFHGRLSSNMVCKHCEHQSPVRFDTFDSL SLSIPAATWGHPLTLDHCLHHFISSESVR
 DVVCDNCTKIEAKGTQNGEKVEHQRTTFVKQLKLGKLPQCLCIHLQRLSWSSQGTPLKRHEHVQFNEFLM
 MDFYKYRLLGHKPSQHGPKATESPGSALGVQDTQAAPKPLSQPAAPKTQFFMNGACSPSLLPALPSPMA
 FPLPVAPDYSSMYLFRMLMAVVVHHGDMHSGHFVYRSPPSAKNPLSTSNQWLWISDDTVRKASLQEV
 SSSAYLLFYERVLSRVQQQGREYRSEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3450_a04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001107153

ORF Size: 1551 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

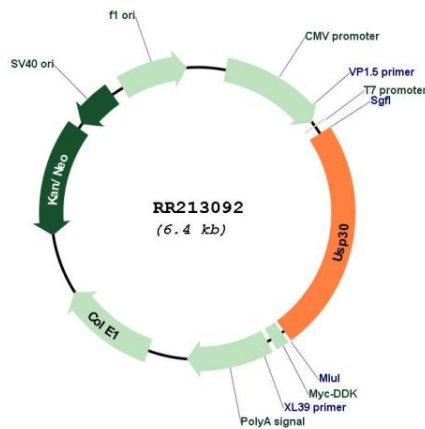
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
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_001107153.1](#), [NP_001100623.1](#)
RefSeq Size: 3362 bp
RefSeq ORF: 1554 bp
Locus ID: 304579
UniProt ID: [D3ZPG5](#)
Cytogenetics: 12q16
MW: 58.2 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 (PubMed:24896179). Preferentially cleaves 'Lys-6'- and 'Lys-11'-linked polyubiquitin chains, 2 types of linkage that participate to 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR213092