

## Product datasheet for **RN213092**

### **Usp30 (NM\_001107153) Rat Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >RN213092 representing NM\_001107153  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGAGTTCGGGGCGAGGCGGCGAGGACAGCGGCCACAAGCCCTCCAGCGTTCCTGCGCACCG  
 GGGCGGCTGTGAGATACAAAGTCATGAAGAACTGGGGAGTGATCGGTGGAATTGCTGCTGCTTGCAGC  
 AGGAATATATGTTATCTGGGGTCCCATACAGAGAGGAAGAAGCGGAGAAAAGGGCTTGTGCCTGGCCTT  
 GTCAACTTGGGGAACACCTGCTTCATGAACTCCCTGCTGCAGGGTTTGTCTGCCTGCCCCGCTTTGTCA  
 AGTGGCTGGAGGAGTTTACCACCCAGTACTCCAGGGACCAGCAGGGGCCACACACACCAGTGCCTGTC  
 CTTGACACTGCTGAGCCTCCTGAAAGCTCTGCTCCTGCCAAGAAGTCACTGAGGAAGAGGTCTTGACGCC  
 AGCTGCCTGCTGGACGCTCTGAGAATGTACCGGTGGCAGATCTCGTCCTTTGAGGAGCAGGATGCTCACG  
 AACTGTTCCATGTCATCACCTCATCCCTGGAGGACGAGCGGGACCAGCCCGGGTACCCACTTGTT  
 TGATGTGCACTCCCTGGAGCAGCAGTCAAGAAATGGCTCCAGACAAGTCACTGCCACACGAGAGGGTCC  
 CCTCACCCACGACCAATCCCTGGAAGTCTCAGCACCCCTTCCATGGGAGGCTCAGCAGTAACATGGTGT  
 GCAAGCACTGTGAGCACCAGAGCCCTGTTCCGGTTTGACACCTTTGATAGCCTTTCCCTCAGTATCCAGC  
 TGCTACTTGGGGGCACCCACTGACACTGGACCACTGCCTTACCACCTTCACTCATCCGAGTCGGTGCGA  
 GACGTTGTGTGTGACAAGTGTACAAAGATTGAAGCAAAAGGGACCCAGAACGGGAAAAGGTGGAGCACC  
 AGAGGACCACTTTCGTTAAACAGTTAAAGCTAGGAAAGCTGCCACAGTGCCTCTGCATCCACCTGCAGCG  
 GCTCAGCTGGTCCAGCCAAGGCACGCCCTTGAAGCGGCATGAGCAGTGCATTTAACGAGTTCCTGATG  
 ATGGACTTCTACAAGTACCGCTCCTGGGACATAAACCAGCCAGCATGGCCCCAAAGCCACTGAGAGCC  
 CAGGGTCTGCCCTGGGAGTACAGGACACACAGGCGGCCCGAAGCCAGGTCTGAGTCAAGCCAGCGGCCCC  
 CAAGACACAGTTTTTTATGAATGGCGCCTGCTCCCGTCTTTGTTGCCAGCCTGCCTTCTCCGATGGCT  
 TTCCCTCTACCAGTGGCTCCTGACTACAGCTCCTCCATGTACCTTTCGCTTGTGAGTGGCAGTTGTGCTCC  
 ACCATGGAGACATGCACTCTGGACACTTTGTCACTACAGACGGTACCACCTTCTGCCAAGAACCCTCT  
 CTCAACCAGCAACCAGTGGCTGTGGATTTCCGATGACTGTCCGAAAGGCCAGCCTGCAGGAGTCTCTG  
 TCCTCTAGTGCCTACCTGCTGTTCTATGAGCGAGTCTGTCCAGGGTGCAGCAGCAGGGGCGAGAGTACA  
 GGTCAGAGGAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001107153  
**Insert Size:** 1554 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001107153.1</a></u> , <u><a href="#">NP_001100623.1</a></u>
<b>RefSeq Size:</b>	3362 bp
<b>RefSeq ORF:</b>	1554 bp
<b>Locus ID:</b>	304579
<b>UniProt ID:</b>	<u><a href="#">D3ZPG5</a></u>
<b>Cytogenetics:</b>	12q16
<b>Gene Summary:</b>	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]