

## Product datasheet for **MC207822**

### Otub1 (NM\_134150) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Otub1 (NM\_134150) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Otub1  
**Synonyms:** AI850305  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207822 representing NM\_134150  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGCGGAGGAACCTCAGCAGCAGAAGCAGGAGCCACTGGGTAGCGACTCCGAAGGTGTTAACTGTT  
TGGCCTATGATGAAGCCATTATGGCTCAGCAGGACCGAATTCAGCAAGAGATTGCTGTGCAGAATCCTCT  
GGTGTGAGAGCGGCTGGAACCTCAGTCTGTACAAGGAGTATGCTGAGGATGACAACATCTACCAACAG  
AAGATCAAGGACCTCCACAAAAGTACTATACATACGGAAGACCCGGCCTGATGGCAACTGCTTCTACC  
GAGCGTTTGGCTTCTCCACCTGGAGGCACTGCTAGATGACAGCAAGGAAGTGCAGCGGTTCAAAGCCGT  
GTCTGCCAAGAGTAAAGAGGACCTGGTATCCCAGGGCTTCACTGAATTCACAATTGAAGACTTCCACAAC  
ACGTTTCATGGACCTTATCGAGCAGGTGGAGAAGCAGACCTCAGTAGCTGACCTGCTGGCCTCCTTCAATG  
ACCAGAGCACCTCAGACTACCTTGTGGTCTACCTGCGACTGCTCACCTCAGGCTACCTACAGCGGGAGAG  
CAAGTTCTTCGAGCACTTCATCGAGGGTGGCCGGACTGTTAAGGAGTTCTGCCAGCAGGAGGTGGAACCC  
ATGTGCAAGGAGAGCGACCACATCCACATCATAGCCCTGGCCAGGCCCTCAGTGTGTCCATCCAAGTGG  
AGTACATGGACCGCGGCGAGGGCGCACCAACCCACAGTCTTCCCGAGGGCTCCGAGCCCAAGGT  
CTACCTTCTACCGACTGGACACTACGATATCCTCTACAAATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_134150  
**Insert Size:** 816 bp



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**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.

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](#)

**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\\_134150.2](#), [NP\\_598911.1](#)

**RefSeq Size:** 1677 bp

**RefSeq ORF:** 816 bp

**Locus ID:** 107260

**UniProt ID:** [Q7TQI3](#)

**Cytogenetics:** 19 A

**Gene Summary:** Hydrolase that can specifically remove compared to 'Lys-48'-linked conjugated ubiquitin from proteins and plays an important regulatory role at the level of protein turnover by preventing degradation. Regulator of T-cell anergy, a phenomenon that occurs when T-cells are rendered unresponsive to antigen rechallenge and no longer respond to their cognate antigen. Acts via its interaction with RNF128/GRAIL. Surprisingly, it regulates RNF128-mediated ubiquitination, but does not deubiquitinate polyubiquitinated RNF128. Deubiquitinates estrogen receptor alpha (ESR1). Mediates deubiquitination of 'Lys-48'-linked polyubiquitin chains, but not 'Lys-63'-linked polyubiquitin chains. Not able to cleave di-ubiquitin. Also capable of removing NEDD8 from NEDD8 conjugates, but with a much lower preference compared to 'Lys-48'-linked ubiquitin.[UniProtKB/Swiss-Prot Function]