

Product datasheet for **RN210905**

Otub1 (NM_001106332) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Otub1 (NM_001106332) Rat Untagged Clone
Tag: Tag Free
Symbol: Otub1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN210905 representing NM_001106332
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGGAGGAACCTCAGCAGCAGAAGCAGGAGCCGCTGGGCAGCGATTCCGAAGGTGTTAACTGTC
TAGCCTATGATGAAGCCATTATGGCTCAGCAAGACCGGATTCAGCAAGAGATTGCTGTGCAGAATCCTCT
GGTGTGAGGCGACTGGAACCTCAGTTCTGTATAAGGAGTATGCTGAGGATGACAACATTTACCAACAG
AAGATCAAGGACCTCCACAAAAAGTACTCTACATACGGAAGACCAGGCCGACGGGAAGTCTTCTATC
GAGCGTTTGGCTTCTCCCACTTGAGGCACTGCTCGATGACAGCAAGGAAGTGCAGCGGTTCAAAGCCGT
GTCTGCCAAGAGTAAAGAGGACCTGGTGTCCCAGGGCTTCACTGAATTCACAATCGAGGACTTCCACAAC
ACATTCATGGACCTTATCGAGCAGGTGGAGAAGCAGACCTCAGTAGCTGACCTGCTGGCCTCCTTCAACG
ACCAGAGCACCTCAGACTACCTTGTGGTCTACCTGCGACTGCTCACCTCAGGCTACCTGCAGCGGGAGAG
CAAGTTCTTCGAGCACTTCATAGAGGGTGGCCGGACTGTTAAGGAGTTCTGCCAGCAGGAGGTGGAACCC
ATGTGCAAGGAGAGCGACCACATCCACATCATCGCCCTGGCCAGGCCCTCAGTGTGCCATCCAGGTGG
AGTACATGGACCGCGGCGAGGGCGGCACCACCAATCCACACGCTTCCCCGAGGGCTCTGAGCCCAAGT
CTACCTGCTACCGACCTGGACTACGATATCCTCTACAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001106332
Insert Size: 816 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:	NM_001106332.1 , NP_001099802.1
RefSeq Size:	1687 bp
RefSeq ORF:	816 bp
Locus ID:	293705
UniProt ID:	B2RYG6
Cytogenetics:	1q43
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 (By similarity).[UniProtKB/Swiss-Prot Function]