

Product datasheet for **MG203606**

Otub1 (NM_134150) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Otub1 (NM_134150) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Otub1
Synonyms: AI850305
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203606 representing NM_134150
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCGGAGAACCTCAGCAGCAGAAGCAGGAGCCACTGGGTAGCGACTCCGAAGGTGTTAACTGTT
 TGGCCTATGATGAAGCCATTATGGCTCAGCAGGACCGAATTCAGCAAGAGATTGCTGTGCAGAATCCTCT
 GGTGTCAGAGCGGCTGGAACCTCTCAGTCTGTACAAGGAGTATGCTGAGGATGACAACATCTACCAACAG
 AAGATCAAGGACCTCCACAAAAAGTACTACATACGGAAGACCCGGCCTGATGGCAACTGCTTCTACC
 GAGCGTTTGGCTTCTCCACCTGGAGGCACTGCTAGATGACAGCAAGGAAGTGCAGCGGTTCAAAGCCGT
 GTCTGCCAAGAGTAAAGAGGACCTGGTATCCCAGGGCTTCACTGAATTCACAATTGAAGACTTCCACAAC
 ACGTTCATGGACCTTATCGAGCAGGTGGAGAAGCAGACCTCAGTAGCTGACCTGCTGGCCTCCTTCAATG
 ACCAGAGCACCTCAGACTACCTTGTGGTCTACCTGCGACTGCTCACCTCAGGCTACCTACAGCGGGAGAG
 CAAGTTCTTCGAGCACTTCATCGAGGGTGGCCGGACTGTTAAGGAGTTCTGCCAGCAGGAGGTGGAACCC
 ATGTGCAAGGAGAGCGACCACATCCACATCATAGCCCTGGCCAGGCCCTCAGTGTGTCCATCCAAGTGG
 AGTACATGGACCGCGCGAGGGCGGCACCACCAACCCACAGTCTTCCCCGAGGGCTCCGAGCCCAAGGT
 CTACCTTCTACCGACTGGACACTACGATATCCTCTACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203606 representing NM_134150
 Red=Cloning site Green=Tags(s)

MAAEEPQQKQEPLGSDSEGVNCLAYDEAIMAQQDRIQQEIAVQNPLVSRLELSVLKYEAEDDNIYQQ
 KIKDLHKKYSYIRKTRPDGNCFYRAFGFSHLEALLDDSKELQRFKAVSAKSKEDLVSQGFTEFTIEDFHN
 TFMDLIEQVEKQTSVADLLASFNDQSTSDYLVVYLRLLTSGYLQRESKFFEHFIEGGRTVKEFCQQEVEP
 MCKESDHIHIIALAQALSVSIQVEYMDRGEGETTNPVHFPEGSEPKVYLLYRPGHYDILYK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134150

ORF Size: 813 bp

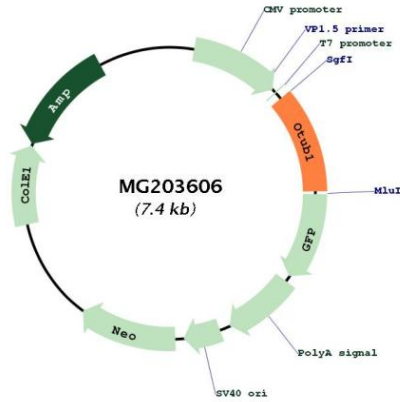
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<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:	<u>NM_134150.2</u> , <u>NP_598911.1</u>
RefSeq Size:	1677 bp
RefSeq ORF:	816 bp
Locus ID:	107260
UniProt ID:	<u>Q7TQI3</u>
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]

Product images:



Circular map for MG203606