

## Product datasheet for **MG226487**

### Otud7a (NM\_130880) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Otud7a (NM_130880) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Otud7a
Synonyms:	AJ430384; Otud7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG226487 representing NM\_130880  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTCTCTAGCTGCTTCCAAACCCGCCCTCGGCTGAGTGTGGCAGCACTTCTACATGATCCTATGA  
 CGTTGATATGGACGCAGTCCTGTCAGACTTTGTTTCGGTCCACGGGGCAGAACCCTGGTCTGGCCAGAGA  
 TCTGCTGGAAGGTA AAAACTGGGACCTGACAGCTGCACTAAGCGACTATGAGCAACTGCGACAGGTGCAC  
 ACAGCCAACTGCCACATGTGTTCAACGAAGGGAGGTGTGCCAAGCAGGCCGAGCGAGAATTGCCCCAGC  
 CTGGGCACAAGGTGGAGCGGCCCTGCTGCAGAGGCAGGACGATATTGCCCAAGCAGAGAAGCGCCTGTC  
 CCGGGGGATCTCCCATGCCAGCTCAGCCATCGTCTCCCTGGCCGATCCCACGTGGCAAATGAGTGAAC  
 AATGAGCAGTTCCCACTGGAGATGCCATCTATACATTCCAGCTGCCGGACCTGAGCGTGTACAGTGAGG  
 ACTTCAGGAGCTTCATCGAACGGGACCTGATCGAGCAGGCCACTATGGTAGCTCTGGAGCAAGCAGGTCCG  
 CCTGAAGTGGTGGTCTACCGTGTGCACGAGCTGTAAAAGGCTTCTCCTTTGGCCACAACAGGAGATGGG  
 AACTGCCTCTTACATGCCGCTCGCTAGGAATGTGGGGCTTTCATGACCGGGACCTGGTTTTGCGGAAAG  
 CTCTCTACACCATGATGAGGACGGGTGCTGAGCGGGAAGCCCTGAAGCGGAGGTGGAGGTGGCAGCAGAC  
 ACAGCAGAAACAAGGAGGAGGAATGGGAGCGAGAGTGGACAGAGCTGCTAAAACCTGGCCTCCAGCGAGCCT  
 CGCACACACTTCAGCAAGAATGGCAGTGGCACAGGTGGTGGTGTGGACAACCTCTGAGGACCTGTATATG  
 AAAGCCTGGAAGAGTTCCATGTCTTTGTCTCGCCACATACTACGGAGACCCATTGTGGTGGTGGCAGA  
 CACCATGCTAAGAGACTCTGGTGGAGAAGCATTGACCCATCCCATTGAGGGGATCTACCTGCCTTG  
 GAGGTGCCTCCCAACAGGTGCCACTGCTCACCCCTGGTCTGGCCTACGATCAAGCTCACTTTTCAGCCC  
 TAGTGTCCATGGAACAGAGAGACCAACAGAGAGAACAAGCTGTGATCCCTCTGACGGATTCGGAACACAA  
 GCTGTCTGCCCTTGCACTTTGCTGTGGACCCGGGAAAGGACTGGGAATGGGGGAAAGATGACAACGCAAT  
 GCCCGGTTAGCCAACTCATCTGTCCCTAGAAGCCAAGCTGAACCTTCTACACAGCTACATGAATGTGA  
 CGTGGATCCGCATCCCCTCCGAGACCCGGGCTCCCCTTGACAGCCAGAGTCTCCAACGGCCTCAGCAGG  
 GGAGGATGTACAGTCCCTGGCGGAATCGCTGGACTCGGACCGGATTCTGTGTGCAGCAATTCCAACAGC  
 AATAATGGCAAGAATGGTAAGGACAAAGAGAAGGAGAAACAGCGCAAGGACAAGGACAAGACGCGCGCG  
 ACTCCGTGGCCAACAAGCTGGGCAGCTTCAGCAAGACGCTGGGCATCAAGCTAAAGAAAAACATGGGCGG  
 GCTAGGCGGCCTGGTGCACGGTAAGATGGGTCTGCCAACTCTGCCAACGGCAAAAACGGCGACAGCGCT  
 GAGCGCAACAAGGAGAAAAAGTCCAAGTCGCGCAAGGGCAGCAAGGAGGAATCGGGAGCGTCAAGCAGCA  
 CCTCGCCGTCCGAGAAGACCACGCGCTCGCCACGGACAAGCGTCCGGAGCGTCCCGGCCGACAAGGG  
 GAGCGGGTCAAGAGGCGATGCCTGGAAGTACAGCACGGACGTAAGCTGAGCCTCAACATCCTGCGCGCC  
 GCCATGCAAGGGCAGCGCAAATTCATCTTCGCGGGCTGCTGCTCACCAGCCACCGGCACCAGTTTCAAG  
 AGGAGATGATCGGCTACTACCTGACCAGCGCGCAGGAGCGCTTTAGCGCGGAGCAAGAACAGCGCGCGG  
 GGACGCGCGCGCGGCTGCCGACGAGCCACGGCCACCGCCACGGTCAAGCGGCCAGCGCGCAGGCCAGAG  
 GCCGAAGGTGCGCCGGGCCCGGAGCGCGCTCGCCGGGCCGACAGCCGCGCAGCCACGCGAGCTGGTGC  
 TCAAGCTCAAGGAGCGGCGGAGCCCGGACTGGAGCGAGCGCACGGCGGCTCGGGCGGACCGACTCCCGGCC  
 AGCATCCCGGGTCCGGCGCGCGCGCGGACGCGCGGCTCCCGGTACGGCGGACCGACTCCCGGCCG  
 AGCCCGCCCGCGCCCGCGCGCCAGAGCGTCATCCACGTGCAGGCGCGGCCCGGACGAGGCGTGCGCGC  
 CGACAGTGGGCGCGCTACGGCCGTGCGGACGTAACCGCAGCAGAACCGTCTGCTGTGGTGCAGAGCTA  
 CAGCCCAGCGCGCAGCGCTGCGCACCGTCAATACAGTGGAGTCCCTGGCGCCCGGAGGAGCGGACGCC  
 CCGGGACCCGCGGAGCACAAGTCGACAGCTACAGCAACGGCTTCGGCGCAGCCCGGACGGGCTGGAGT  
 TCGCCGACCGCGCGCCCGCGCGCTCGAACGCTGAGTGCGGCCGCGGAGGCCCGGGCCCGCTCA  
 GCGGCGTCCAGCGGAGAACTGCGGTTCTACGGCGCGCGGAGACCGAGCACTTCTGCTCTATTGC  
 TACCGAGAGGAGCTGCGGCGCGCGGAGGCGCGCGCGCGGACCC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG226487 representing NM\_130880  
 Red=Cloning site Green=Tags(s)

MVSSLLPNPPSAECWAALLHDPMTLDMDAVL SDFV RSTGAEPGLARDLLEGKNWDLTAALSDYEQLRQVH  
 TANLPHVFNEGRCAKQAERELPQPGHKVERPCLQRQDDIAQAEKRLSRGISHASSAIVSLARSHVANECA  
 NEQFPLEMPIYTFQLPDL SVYSEDFRSFIERDL IEQATMVALEQAGRLNWWSTVCTSCKRLLPLATTGDG  
 NCLLHAASLGMWGFHDRDLVLRKALYTMRTGAEREALKRRWRWQQTQQNKEEWEWERETELLKLASSE  
 RTHFSKNGSGTGGVDNSEDVYESLEEFHFVFLAHILRRPIVVVADTMLRDSGGEAFAPIPFGGIYLP  
 EVPPNRCHCSPLVLAYDQAHFSALVSMEQRDQREQAVIPLTDSEHKLLPLHFAVDPGKDWEGKDDNDN  
 ARLANLILSLEAKLNLHSHYMNVTWIRIPSETRAPLAQPE SPTASAGEDVQSLAESLSDRDSVCSNSNS  
 NNGKNGKDKKEKQKDKDKTRADSVANKLGSFSKTLGIKLNKMGGLGGLVHGKMGRANSANGKNGDSA  
 ERNKEKSKSRKGSKEESGASASTSPSEKTPSPDKASGASPADKSGSRGDWYKSTDVKLSLNLRA  
 AMQGERKFI FAGLLL TSHRHFHEEMIGYYL TSAQERFSAEQEQRDRDAAAAAAAAATATVTKRPARRPE  
 AEGAPGERASPGPTAAQPTQLVLKLERPSPGTGASARAARAAGGAASPGPGGGARRAAPGTGGPTPGR  
 SPPAPARQSVIHVQAAARDEACAPTVGALRPCATYPQQRSLWSQSYSPARSALRTVNTVESLAPGGADA  
 PGPAEHKSQTYSNFGAARDGLEFADADAPAARSNAECGRGGGPAQRRCQRENCIFYGRAETEHFCSYC  
 YREELRRRREARAARP

TRTRPLE - GFP Tag - V

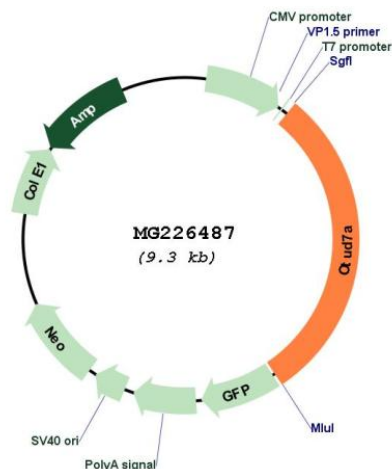
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_130880

ORF Size: 2778 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.

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\\_130880.1, NP\\_570950.1](#)

RefSeq Size: 3461 bp

RefSeq ORF: 2781 bp

Locus ID: 170711

UniProt ID: [Q8R554](#)

Cytogenetics: 7 C

Gene Summary: Has deubiquitinating activity towards 'Lys-11'-linked polyubiquitin chains.[UniProtKB/Swiss-Prot Function]