

Product datasheet for **MG226493**

Yod1 (NM_178691) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Yod1 (NM_178691) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Yod1
Synonyms:	6330564D18Rik; 9930028C20Rik; Hshin7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226493 representing NM_178691 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGAGGCGCCAAAGGCGGCCATTTGGGGTCCCCCGCTGGTTACTCCGGCGCTGTCCCCAGT
CTGAGGCTGGGACCAAGGCTGGCCCCGAGGAGGCCGGCCGCGGACACTATGTGGCGGGTCGCTGCAA
GGCCAAGGTTGGCACCCACCTTTTGCAGGGTCTTCCAGCCGGACCCGCTTACGGGAGCTGCAGGGCCAA
ATCGCCGCTATCACCGGCATCGCTCCCGCAGTCAGCGAATCCTCGTTGGCTACCCGCCGAGTGCCTGG
ATCTCAGCGACCGGGACATCACTCTTGGGGACCTGCCATCCAGTCAGGTGACATGCTGATTGTTGAAGA
AGACCAAACCAGACCAAAGCTTCACCTGCGTTTTCAAATATGGTGCTCCTAGTTATGTCAGGGAAGCT
CTGCCTGTGCTTACCAGAACCAGTCCAGCAGACAACCTTTGCCTCTTTACCAGTGTGTACTATGTGCG
TGGAAGGAGGAGTCTTGAATCCAGCTTGTGCCCTGAGATGAGACGCCTCATAGCACAATTTGTAGCAAG
TGATCCAGTCTTGTATAGTGAGGCGATACTGGGAAAGACAACGAAGACTACTGTGATTGGATCAGAAGG
GATGATACGTGGGGGGGGCAATCGAGATCTCAATCCTGTCTAAGTTTTACCAATGTGAAATATGTGTAG
TAGATACAGACAGTCAGAATTGATCGTTTTGGGGAAGATGCAGGATATACCAAAGAGTTCTGCTTAT
CTACGATGGCATTCACTACGATCCGCTTCAGCGTAACCTCCCTGATCCAGATACCCCTCCTCTGACCATT
TTCTCCTCAAATGATGATATTGTTCTTGTACAAGCACTGGAATTAGCTGATGAAGCTAGAAGAAAGAGAC
AGTTCACTGATGTAACCGCTTACCCTGAGATGCATGATCTGTGAGAAGGGCCTAACCGGACAAGCAGA
AGCAAGGGACCATGCCAGGGAGACAGGCCATACCAACTTTGGAGAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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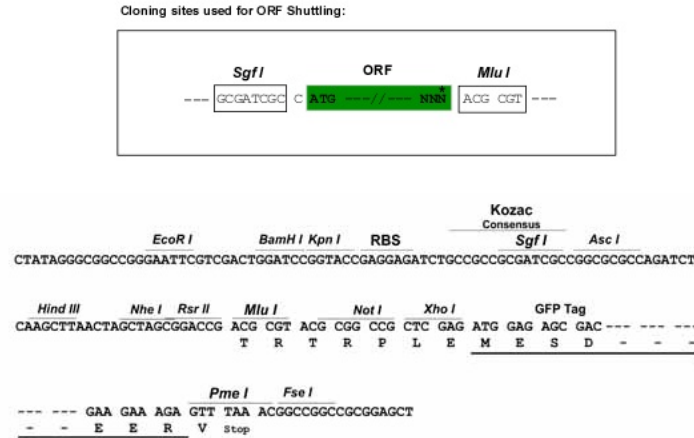
Protein Sequence: >MG226493 representing NM_178691
Red=Cloning site Green=Tags(s)

MFGGAKGGHFGVPPAGYSGAVPQSEAGTKAGPAGGRPADTMWRVRCKAKGGTHLLQGLSSRTRLRELQGG
 IAAITGIAPGSQRILVGYPPECLDLSDRDITLGDLP IQSGDMLIVEEDQTRPKASPAFASKYGAPSYVREA
 LPVLTRTAVPADNSCLFTSVYYYVVEGGVLPACAPEMRRLIAQIVASDPVLYSEAILGKTNEDYCDWIRR
 DDTWGGAIETISILSKFYQCEICVVDQTQVRIDRFGEDAGYTKRVLLIYDGIHYDPLQRNFPDPTPLTI
 FSSNDIIVLVQALELADEARRKRQFTDVNRFTLRMCICQKGLTGQAEARDHARETGHTNFGEV

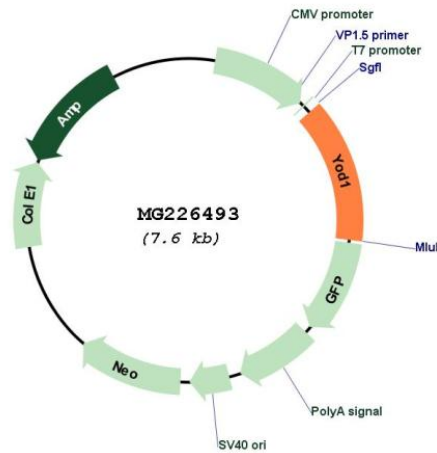
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178691

ORF Size: 1029 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:

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_178691.4](#), [NP_848806.2](#)

RefSeq Size: 3843 bp

RefSeq ORF: 1032 bp

Locus ID: 226418

UniProt ID: [Q8CB27](#)

Cytogenetics: 1 E4

Gene Summary: Hydrolase that can remove conjugated ubiquitin from proteins and participates in endoplasmic reticulum-associated degradation (ERAD) for misfolded luminal proteins. May act by trimming the ubiquitin chain on the associated substrate to facilitate their threading through the VCP/p97 pore. Ubiquitin moieties on substrates may present a steric impediment to the threading process when the substrate is transferred to the VCP pore and threaded through VCP's axial channel. Mediates deubiquitination of 'Lys-27'-, 'Lys-29'- and 'Lys-33'-linked polyubiquitin chains. Also able to hydrolyze 'Lys-11'-linked ubiquitin chains. Cleaves both polyubiquitin and di-ubiquitin. May play a role in macroautophagy, regulating for instance the clearance of damaged lysosomes. May recruit PLAA, UBXN6 and VCP to damaged lysosome membranes decorated with K48-linked ubiquitin chains and remove these chains allowing autophagosome formation.[UniProtKB/Swiss-Prot Function]