

## Product datasheet for RN206073

### Yod1 (NM\_001008889) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Yod1 (NM\_001008889) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Yod1  
 Synonyms: hshin7  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN206073 representing NM\_001008889  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGGCGGCTCCGCTGCAAGGCCAAGGGTGGCACCCACGTTTTGCAGGGTCTTTCCAACCGGACCCGCT  
 TACGGGAAGTGCAGGGCCAAATCGCCGCTATCACCGGCATCGCTCCTGGCAGTCAGCGAATCCTCGTCGG  
 CTACCCACCAGAGTGCCTGGATCTCAGCGACCGGGACATCACTCTCGGGACCTGCCATCCAGTCAGGT  
 GACATGCTGATTGTTGAAGAAGACCAAACCAGACCAAAGCTTACCTGGTTTTCAAACATGGTGCTC  
 CTAGTTATGTCAGGAACTCTGCTGTGCTTACCAGAACCAGTCCCAGCAGACAACCTTTGCCCTCTT  
 TACCAGTGTACTATGTAGTTGAAGGAGGAGTCTTGAATCCAGCTTGTGCCCTGAGATGAGACGCCCTC  
 ATAGCACAAATTTGTAGCCAGTGATCCAGACTTGTATAGTGAGGCAATACTGGGAAAGACAACGAAGAGT  
 ACTGTGATTGGATCAGAAGGGATGATACTTGGGGGGAGCAATTGAGATATCAATCCTGTCCAAGTTTTA  
 TCAATGTGAAATATGTGTAGTAGATACACAGACAGTCAGAATTGATCGTTTTGGGAAAGATGCAGGCTAT  
 ACCAAAAGGGTTCTACTCATCTACGATGGCATTCACTACGATCCGCTTCAGCGAAACTTCCCTGATCCGG  
 ATACCCCTCCTGACCATTTTCTCCTCAAATGATGATATTGTTCTCGTACAAGCACTGGAATTAGCTGA  
 TGAAGCTAGAAGAAAGACAGTTCACTGATGTAACCGCTTACCCTGAGATGCATGCTGTGTCAGAAG  
 GGCTAACCGGACAAGCTGAAGCAAGGGACCATGCCAGGGAGACAGGCCATACCAACTTTGGAGAGGTGT  
 GA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
 ACCN: NM\_001008889  
 Insert Size: 912 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\\_001008889.1](#), [NP\\_001008889.1](#)

**RefSeq Size:** 912 bp

**RefSeq ORF:** 912 bp

**Locus ID:** 363982

**UniProt ID:** [Q32Q05](#)

**Cytogenetics:** 13q13

**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]