

Product datasheet for **RR206073**

Yod1 (NM_001008889) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Yod1 (NM_001008889) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Yod1
Synonyms:	hshin7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR206073 representing NM_001008889 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCGGCTCCGCTGCAAGGCCAAGGGTGGCACCCACGTTTTGCAGGGTCTTTCCAACCGGACCCGCT
TACGGAACTGCAGGGCCAAATCGCCGCTATCACCGGCATCGCTCCTGGCAGTCAGCGAATCCTCGTCGG
CTACCCACCAGAGTGCCTGGATCTCAGCGACCGGGACATCACTCTCGGGACCTGCCATCCAGTCAGGT
GACATGCTGATTGTTGAAGAAGACCAAACCAGACCAAAGCTTCACCTGCGTTTTCAAACATGGTGCTC
CTAGTTATGTCAGGGAACTCTGCCTGTGCTTACCAGAACCGCAGTCCCAGCAGACAACCTTTGCCTCTT
TACCAGTGTACTATGTAGTTGAAGGAGGAGTCTTGAATCCAGCTTGTGCCCTGAGATGAGACGCCTC
ATAGCACAAATTTAGCCAGTATCCAGACTTGTATAGTGAGGCAATACTGGGAAAGACAAACGAAGAGT
ACTGTGATTGGATCAGAAGGGATGATACTTGGGGGGGAGCAATTGAGATATCAATCCTGTCCAAGTTTTA
TCAATGTGAAATATGTGTAGTAGATACACAGACAGTCAGAATTGATCGTTTTGGGGAAGATGCAGGCTAT
ACCAAAGGGTTCTACTCATCTACGATGGCATTCACTACGATCCGCTTCAGCGAACTTCCTGATCCGG
ATACCCCTCCTGACCATTTCTCCTCAAATGATGATATTGTTCTCGTACAAGCACTGGAATTAGCTGA
TGAAGCTAGAAGAAAGAGACAGTTCAGTGTAAACCGCTTACCCTGAGATGCATGCTGTGTCAGAAG
GGCCTAACCGGACAAGCTGAAGCAAGGGACCATGCCAGGGAGACAGGCCATACCAACTTTGGAGAGGTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206073 representing NM_001008889
Red=Cloning site Green=Tags(s)

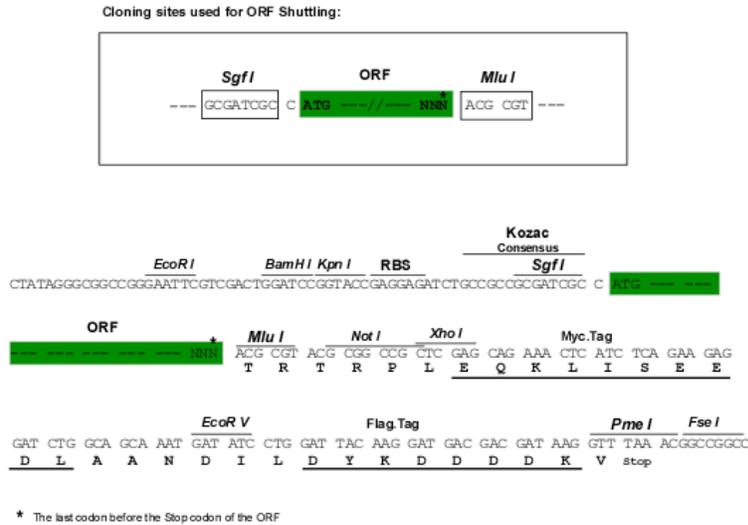
MWRLRCKAKGGTHVLQGLSNRTRLRELQGQIAAITGIAPGSQRILVGYPPECLDLSDRDITLGDLP IQSG
 DMLIVEEDQTRPKASPAFSKHGAPSYVRETL PVLTRTAVPADNSCLFTSVYVVVEGGVLNPACAPEMRRL
 IAQIVASDPDLYSEAILGKTNEEYCDWIRRDDTWGGAIEISILSKFYQCEICVVDQTQVRIDRFGEDAGY
 TKRVLLIYDGIHYDPLQRNFPDPDTPPLTIFSSNDDIVLVQALELADEARRKRQFTD VNRFTLR CMLCQK
 GLTGQAEARDHARETGHTNFGEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2111_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001008889

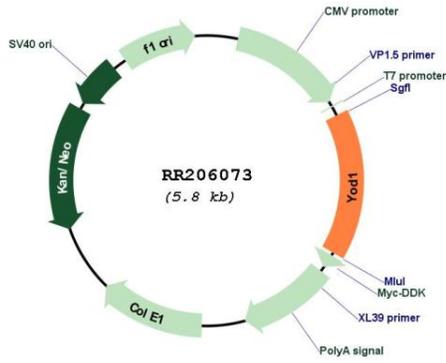
ORF Size: 909 bp

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_001008889.1</u> , <u>NP_001008889.1</u>
RefSeq Size:	912 bp
RefSeq ORF:	912 bp
Locus ID:	363982
UniProt ID:	<u>Q32Q05</u>
Cytogenetics:	13q13
MW:	34.3 kDa
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]

Product images:



Circular map for RR206073