

Product datasheet for **RR204496**

Otud5 (NM_001037496) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otud5 (NM_001037496) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Otud5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR204496 representing NM_001037496
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTATTCTCCCCAAAAGAAGCCGCCACTCCCGACGCCACCCGGCCAACGAACCGCCGCCGCCG
 GGCCGCTGCCCCAGCGCTCGGCGCGGTGGGGGTGTAGGCGTGGCGGGCGGCACGGCGTGGGCGG
 AGGAGAGCGCGACCGTACTCCGCGCTCGTGGGGGCCGTCGCCGGGCTTACCACCACCTCAGGGACCG
 CTACCGGGGCCGCTGGTCTTTCATCGTTGGGCACTAGCCGTGCCGCTGGCGCAGTCGCGGGCCCTC
 GGCCACAGCAGGCTTCTCCACCTCCTTGTGGGGCCCTGGTGGCCCCGGCGGGTCCCGGTGACGCTCT
 TGTTGGCGGGGCCAGTCCGGAACGTGAAGAGGTGCGAGCAGGCTACAACAGCGAAGCAATATGAAGCT
 GCTGCAGCAGCAATCGAGGCCATGGATCCCGCCACTGTAGAACAGCAGGAACACTGGTTTGAAGGCGCT
 TGCGGGACAAGAAAGGCTTCATCATCAAGCAGATGAAGGAGGATGGTGCCTGTCTATTCCGGGCTGTAGC
 TGACCAGGTGTATGGAGACCAGGACATGCATGAGGTTGTGCGAAAGCATTGCATGGACTATCTGATGAAG
 AATGCCGATTACTTTTCCAATATGTACAGAAGACTTACCACCTATATCAATCGGAAGCGAAAAACA
 ACTGCCATGGGAACACATTGAGATGCAGGCTATGGCAGAGATGTACAACCGTCCTGTGGAGGTGTATCA
 GTATAGCACAGAACCTATCAACACATTCATGGGATCCATCAAAATGAAGATGAACCCATCCGTGTCAGC
 TACCACCGAATATCCACTATAATTCAGTGGTGAATCCTAACAAGGCCACTATTGGTGTGGGGCTGGGCC
 TGCCATCATTTAAACCAGGGTTTGCAGAGCAGTCCCTGATGAAGAATGCCATAAAGACATCAGAAGATC
 ATGGATTGAACAGCAAAATGCTGGAAGACAAGAAACGAGCTACAGACTGGGAGGCCACAAATGAGGCCATA
 GAGGAGCAGGTGGCTCGAGAATTTACCTGCAGTGGCTGAGGGATCAAGAGAAACAGGCCCGCCAGGTCC
 GGGGACCCAGCCAGCCACGGAAGCCAGTCCACATGCAGTTCAGCCACAGCAGCAGCCTCCAGTGGCCT
 GGAGGAATGGACTAGTCGGTCCCCACGGCAACGAAGTTACGCCTCGTCACTGAGCACCCCTGAACCTGCAT
 GCCGAGCTAGGCATTAAGCCCCCTTCCCGAGGCACTGTGTTAGCTCTTGCCAAACCTCCTTACCCTGTG
 CACCAGGTACAAGCAGTCAGTTCTCAGCAGGGGCTGATCGGGCCACCTCTCCTTGTGTCCCTTACC
 TGCTCTGGAGTCCCGGCCCTCATCCAGCAGATGTCCCCCTTGCCTTTGGTCTGAATGATTGGGATGAT
 GATGAGATCCTAGCATCGGTGCTGGCAGTGTCCCAACAGGAATACCTAGACAGTATGAAGAAAAACAAG
 TGCACAGAGACCCACCCAGACAAGAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204496 representing NM_001037496
 Red=Cloning site Green=Tags(s)

MTILPKKKPPPDADPANEPPLPPAPRRGGVGVGGGTGVGGGERDRDSGVVGARPRASPPQGP
 LPGPPGALHRWALAVPPGAVAGPRPQASPPPCGGPGGGPGDALVGGASPEREEVAGYNSDEYEA
 AAARIEAMDPATVEQQEHWFKALRDKKGFIIKQMKEDGACLFRVADQVYGDQDMHEVVRKHCMYLMK
 NADYFSNYVTEDFTTYINRKRKNNCHGNHIEMQAMAEMYNRPVEVYQYSTEPINTFHGIHQNEDEPIRVS
 YHRNIHYSVVPNKATIGVGLGLPSFKPGFAEQSLMKNAIKTSEESWIEQMLEDKKRATDWEATNEAI
 EEQVARESYLQWLRDQEKQARQVRGSPQRKASATCSSATAAASSGLEEWTSRSPRQRSSASSPEHPELH
 AELGIKPPSPGTVLALAKPPSPCAPGTSSQFSAGADRATSPLVSLYPALECRALIQQMSPSAFLNDWDD
 DEILASVLAVSQQEYLDKMKKKNVHRDPPDKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

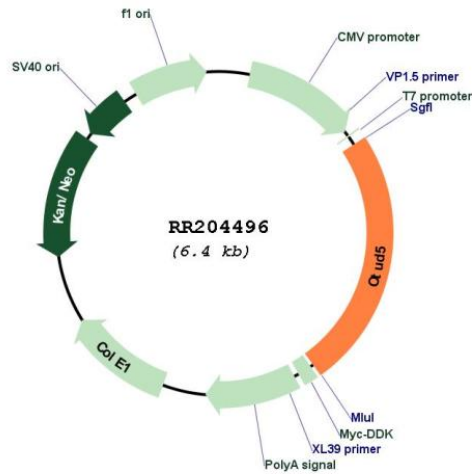
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001037496

ORF Size: 1569 bp

OTI Disclaimer: 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_001037496.1](#), [NP_001032585.1](#)

RefSeq Size: 2632 bp

RefSeq ORF: 1572 bp

Locus ID: 363452

UniProt ID: [Q2YDU3](#)

Cytogenetics: Xq12

MW: 56.5 kDa

Gene Summary: Deubiquitinating enzyme that functions as negative regulator of the innate immune system. Acts via TRAF3 deubiquitination and subsequent suppression of type I interferon (IFN) production. Has peptidase activity towards 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains. Can also cleave 'Lys-11'-linked ubiquitin chains (in vitro) (By similarity).[UniProtKB/Swiss-Prot Function]