

Product datasheet for **MR231241**

Otud7b (NM_001025614) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otud7b (NM_001025614) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Otud7b
Synonyms:	2900060B22Rik; 4930463P07Rik; AI462125; CEZANNE; Trabid2; Za20d1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR231241 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCTGGACATGGATGCTGTCTGTGCGGATTTTGTTCGTCCACAGGTGCAGAGCCAGGGCTGGCTC
 GAGATCTTCTAGAAGGAAAGAACTGGGATGTGAGTGTGCCCTCAGTGATTTTGAACAGTTGCGTCAAGT
 CCATGCTGGGAACCTATCCCCACCTTTAGTGGAGGGAGTACTTGCCCTAAGACCCTGAAAAAGGGGT
 TCGGATAGAGAGCCACTCGCCCTTCTCGACCCATCCTTCAGAGACAAGATGACGTCAATCAAGAAAAAC
 GCCTGTCTAGGGGCATCTCCACGCCAGCTCCAGCATTGTTCCCTGGCCGCTCCCATGTCTCTCCAA
 TGGTGGGGTGGGGGAGCAGTGAACCCCTGGAAATGCCATCTGTGCCTCCAGCTCCAGATCTC
 ACTGTGTACAAAGAAGACTTCCGCAGTTCATAGAGCGAGACCTCATTGAGCAGTCCATGCTGGTTGCCT
 TGGAACAGGCAGGGCGTCTGAATTGGTGGTTAGTATGGACTCCACCTGCCAGAGGCTGCTCCCTTAGC
 AACTACTGGGGATGGGAACTGCCTCCTGCATGCAGCATCTTGGGATGTGGGTTTCCATGATAGAGAC
 TTGGTGTGAGGAAAGCGCTGTATGCACCTGATGGAGAAGGGGTGGAGAAGGAAGCACTGAGAAGCGCT
 GGAGGTGGCAGCAACACAGCAGAATAAAGAGTCAAGACTGGTGTATACGGAAGATGAGTGGCAGAAAGGA
 ATGGAATGAATTGATCAAACTTGCTTCAAGTGAACCCAGAATGCATCTGGGTTCCACGGAGCCAGTGGT
 GGTGGAGTGGAGAGCTCCGAGGAGCCGGTATATGAAAGCCTAGAGGAATCCATGTCTTCGTCTTGCTC
 ATGTGCTCAAGAGGCCATAGTGGTCTGGCAGACACCATGCTGAGGGACTCTGGAGGGGAAGCATTGTC
 CCATATCCCATTTGGAGGGATCTATCTGCCATTGGAGTTCCAGCCAGCCAGTGTACCGATCCCCTCTG
 GTGCTCGCCTATGATCAGGCCACTTCTCTGCGCTTGTGTGATGGAGCAGAAGGAGAGCCCAAGAACA
 GGGCTGGGAGTGGGGCAAGATGACAATGACAATGTCCGATTGGCCAGTATAATTCGTCTGGAGGTG
 AAGTTACATCTGCTGCATAGCTATATGAATGTGAAGTGGATCCCACTGTCTTCTGATTACAAGCTCCCC
 TAGCTCAGCCTGAGTCCCCCACAGCCTCAGCTGGAGATGAACCCAGGTCCACTCCTGAGTCTGGGGAGTC
 AGACAAGGAGTGGTTGGCAGCAGTTCTCTCGGCAACGAGGGCAGCAGCCGGAAGGAGAAGTCAAAGCGA
 GACCGGGAGAAGGACAAGAAGAGAGCAGATTCCGTGGCTAACAACTGGGCAGCTTTGGCAAAACCTTGG
 GCAGCAAGCTTAAGAAGAACATGGGGGCTGATGCACAGCAAGGGCCCCAAGCCTGGAGGGCTGGGGAG
 TGGTCTGGAATAAGCAGTGGTACGGAGACATTAGAAAAGAAGAAGAACAACACATTGAAGAGCTGG
 AAGGGTGGCAAGGAAGAGGCTGCTGGGGATGGCCTGTGTCTGAGAAGCCCCGCTGAGTCTGTTGGCA
 ATGGCGGGAGCAAGTATAGCCAGGAGGTGATGCAAAGCCTGAGCACTATGAGGATCGCAATGCAAGGGGA
 GGGCAAGTACATTTTGTGGAACCTGAAGATGGGCCACCGGCACCAGTATCAGGAGGAGATGATCCAG
 CGTTACCTTGAGATGCTGAGGAAAGATTCTGGCAGAGCAGAAGCAGAAGGAGGTTGAGAGGAAGATCA
 TGAATGGAGGGTTAGTTAGTGGGCTCCTCCAGCCAAAAGCCAGAGCCGGACGGTGGGGAGGACCAGCC
 CAGTGACTCCCCCGCAGAGCCCAAGGCGATGGCCTTCTCTACTGCTTACCCTGGGGGCTTACTATCCCT
 CGGCCTTCTGGGGTGGAGTCCACTGCCAGGAACCCCGGAGGCAATTGGCAGGGGGCCATGTGTAGGGG
 GCTTACCATCATATGCCACCTTTCCAGACAGTATCCTGGGCGACCGTACCCCCACCAGGACAACATCCC
 AGCTCTGGAGCCAGGCAAGATGGAGTTCACAGGGGTGCCTTGTACCACCCAGTCCCGTGTGGCTGAT
 TCCTATAGCAATGGCTACAGAGAGCCCCAGGCCAGATGGATGGGCTGGAGCTCCACGGGACTTCCCC
 CAACCCAGACCAATGCAACAACCGAACTGCAGCTTCTATGGACACCCTGAGACAACAACCTGTGCTC
 TTGCTGTTACAGGAAGAAGTGAAGCGAGGGAGCGGGAACCTGGTGGGGAAGTCTGGCACACAGGTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231241 protein sequence

Red=Cloning site Green=Tags(s)

```

MTLDMDAVLSDFVRSTGAEPGLARDLLEGKNWDVSAALSDFEQLRQVHAGNLSPPFSGGSTCPKTPEKGG
SDREPTRPSRPILQRQDDVIQEKRLSRGISHASSIVSLARSHVSSNGGGGSSEHLEMPICAFQLPDL
TVYKEDFRSFIERDLIEQSMLVALEQAGRLNWWVSMSTCQRLPLATTGDGNCLLHAASLGMWGFHDRD
LVLRKALYALMEKGVEKEALRRRWRWQQTQQNKESGLVYTEDEWQKEWNELIKLASSEPRMHLGNSGASG
GGVESSEEPVYESLEEFHVFVLAHVLRPIVVVADTMLRDSGGEAFAPIPFGGIYLPLEVPASQCHRSP
VLAAYDQAHFSALVSMEQKESAKEQAVIPLTDSEHKLLPLHFAVDPGKGWEWGKDDNDNVRLASIIISLEV
KLHLLHSYMNVKWIPLSSDSQAPLAQPESPTASAGDEPRSTPESGESDKESVGSSSLGNEGSRKESKR
DREKDKKRADSVANKLGSFGKTLGSKLKKNMGGLMHSKGPKEGGLGSGSGISSGTETLEKKKNNTLKS
WGGKKEEAAGDGPVSEKPPSESVNGGSKYSQEVMSLSTMRIAMQGEKGYIFVGTLMGHRHQYQEEMIQ
RYLADAEERFLAEQKQKEVERKIMNGGLVSGPPPAAKPEPDGGEDQPSDSPAEPKAMAFSTAYPGGFTIP
RPSGGGVHCQEP RRQLAGGPCVGG LPSYATFPRQYPGRPYPHQDNIPALEPGKDVHRGALLPPQFRVAD
SYSNGYREPPDPGWAGAPRGLPPTQTCKCKQPNC SFYGH PETNNLCSCCYREELRRREREPGGELLAHRF
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001025614

ORF Size: 2523 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_001025614.1](#), [NP_001020785.1](#)

RefSeq Size: 8043 bp

RefSeq ORF: 2523 bp

Locus ID: 229603

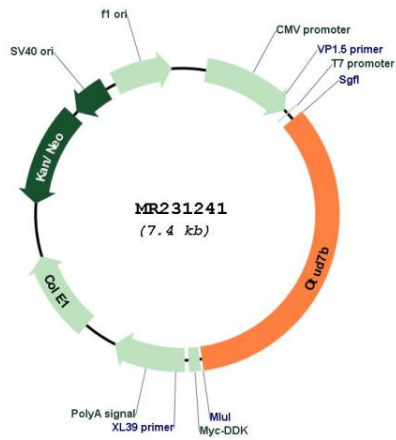
UniProt ID: [B2RUR8](#)

Cytogenetics: 3 F2.1

MW: 92 kDa

Gene Summary: Negative regulator of the non-canonical NF-kappa-B pathway that acts by mediating deubiquitination of TRAF3, an inhibitor of the NF-kappa-B pathway, thereby acting as a negative regulator of B-cell responses. In response to non-canonical NF-kappa-B stimuli, deubiquitinates 'Lys-48'-linked polyubiquitin chains of TRAF3, preventing TRAF3 proteolysis and over-activation of non-canonical NF-kappa-B (PubMed:23334419). Negatively regulates mucosal immunity against infections (PubMed:23334419). Deubiquitinates ZAP70, and thereby regulates T cell receptor (TCR) signaling that leads to the activation of NF-kappa-B (PubMed:26903241). Plays a role in T cell homeostasis and is required for normal T cell responses, including production of IFNG and IL2 (PubMed:26903241). Mediates deubiquitination of EGFR (By similarity). Has deubiquitinating activity toward 'Lys-11', 'Lys-48' and 'Lys-63'-linked polyubiquitin chains. Has a much higher catalytic rate with 'Lys-11'-linked polyubiquitin chains (in vitro); however the physiological significance of these data are unsure. Hydrolyzes both linear and branched forms of polyubiquitin (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR231241