

Product datasheet for **MC229030**

Otud7b (NM_001025614) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC229030 representing NM_001025614
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACCCTGGACATGGATGCTGTCTGTGCGGATTTTGTTCGTTCCACAGGTGCAGAGCCAGGGCTGGCTC
 GAGATCTTCTAGAAAGAAAGAACTGGGATGTGAGTGTGCCCTCAGTGATTTTGAACAGTTGCGTCAAGT
 CCATGCTGGGAACCTATCCCCACCTTTAGTGGAGGGAGTACTTGCCCTAAGACCCTGAAAAAGGGGT
 TCGGATAGAGAGCCACTCGCCCTTCTCGACCATCCTTCAGAGACAAGATGACGTCAATCAAGAAAAAC
 GCCTGTCTAGGGGCATCTCCACGCCAGCTCCAGCATTGTTCCCTGGCCGCTCCCATGTCTCTCCAA
 TGGTGGGGTGGGGGAGCAGTGAACCCCTGGAAATGCCATCTGTGCCTCCAGCTCCAGATCTC
 ACTGTGTACAAAGAAGACTTCCGAGCTTCATAGAGCGAGACCTCATTGAGCAGTCCATGCTGGTTGCCT
 TGGAACAGGCAGGGCGTCTGAATTGGTGGTTAGTATGGACTCCACCTGCCAGAGGCTGCTCCCTTAGC
 AACTACTGGGGATGGGAACTGCCTCCTGCATGCAGCATCTTGGGATGTGGGTTTCCATGATAGAGAC
 TTGGTGTGAGGAAAGCGCTGTATGCACCTGATGGAGAAGGGGTGGAGAAGGAAGCACTGAGAAGCGCT
 GGAGGTGGCAGCAACACAGCAGAATAAAGAGTCAAGACTGGTGTATACGGAAGATGAGTGGCAGAAAGGA
 ATGGAATGAATTGATCAAACTTGCTTCAAGTGAACCCAGAATGCATCTGGGTTCCACGGAGCCAGTGGT
 GGTGGAGTGGAGAGCTCCGAGGAGCCGGTATATGAAAGCCTAGAGGAATCCATGTCTTCGTCCTTGCTC
 ATGTGCTCAAGAGGCCATAGTGGTCTGGCAGACACCATGCTGAGGGACTCTGGAGGGGAAGCATTGTC
 CCCTATCCCATTTGGAGGGATCTATCTGCCATTGGAGGTTCCAGCCAGCCAGTGTACCGATCCCCTCTG
 GTGCTCGCCTATGATCAGGCCACTTCTCTGCGCTTGTGTGATGGAGCAGAAGGAGAGCCCAAAGAAC
 AAGCTGTGATCCCACTCACAGATTCAGAGCAAGCTGCTGCCCTGCATTTGCTGTGGACCCAGGAA
 GGGCTGGGAGTGGGGCAAAGATGACAATGACAATGTCCGATTGGCCAGTATAATTCGTCTGGAGGTG
 AAGTTACATCTGCTGCATAGCTATATGAATGTGAAGTGGATCCCACTGTCTTCTGATTCACAAGCTCCCC
 TAGCTCAGCCTGAGTCCCCCACAGCCTCAGCTGGAGATGAACCCAGGTCCACTCCTGAGTCTGGGAGTC
 AGACAAGGAGTGGTTGGCAGCAGTTCTCTCGGCAACGAGGGCAGCAGCCGGAAGGAGAAGTCAAAGCGA
 GACCGGGAGAAGGACAAGAAGAGAGCAGATTCCGTGGCTAACAACTGGGAGCTTTGGCAAAACCTTGG
 GCAGCAAGCTTAAGAAGAACATGGGGGCTGATGCACAGCAAGGGCCCCAAGCCTGGAGGGCTGGGGAG
 TGGTCTGGAATAAGCAGTGGTACGGAGACATTAGAAAAGAAGAAGAACAACACATTGAAGAGCTGG
 AAGGGTGGCAAGGAAGAGGCTGCTGGGGATGGGCTGTGTCTGAGAAGCCCCGCTGAGTCTGTTGGCA
 ATGGCGGGAGCAAGTATAGCCAGGAGGTGATGCAAAGCCTGAGCACTATGAGGATCGCAATGCAAGGGGA
 GGGCAAGTACATTTTGTGGAACCTGAAGATGGGCCACCGGCACCAAGTATCAGGAGGAGATGATCCAG
 CGTTACCTTGAGATGCTGAGGAAAGATTCTGGCAGAGCAGAAGCAGAAGGAGGTTGAGAGGAAGATCA
 TGAATGGAGGGTTAGTTAGTGGGCTCCTCCAGCCAAAAAGCCAGAGCCGGACGGTGGGGAGGACCAGCC
 CAGTGACTCCCCCGCAGAGCCCAAGGCGATGGCCTTCTCTACTGCTTACCCTGGGGGCTTACTATCCCT
 CGGCCTTCTGGGGTGGAGTCCACTGCCAGGAACCCCGGAGGCAATTGGCAGGGGGCCATGTGTAGGGG
 GCTTACCATCATATGCCACCTTTCCAGACAGTATCCTGGGCGACCGTACCCCAACAGGACAACATCCC
 AGCTCTGGAGCCAGGCAAAGATGGAGTTCACAGGGTGCCTTGTACCACCCAGTCCCGTGTGGCTGAT
 TCCTATAGCAATGGCTACAGAGAGCCCCAGGCCAGATGGATGGGCTGGAGCTCCACGGGACTTCCCC
 CAACCCAGACCAATGCAACAACCGAACTGCAGCTTCTATGGACACCCTGAGACAAACAATTGTGCTC
 TTGCTGTTACAGGGAAGAACTGAGGCGGAGGGAGCGGAACTGGTGGGAACTGCTGGCACACAGGTTC
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001025614
Insert Size: 2523 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001025614.1, NP_001020785.1</u>
RefSeq Size:	8043 bp
RefSeq ORF:	2523 bp
Locus ID:	229603
UniProt ID:	<u>B2RUR8</u>
Cytogenetics:	3 F2.1
Gene Summary:	<p>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]</p>