

Product datasheet for MC229375

Otud4 (NM_001256033) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Otud4 (NM_001256033) Mouse Untagged Clone
Tag: Tag Free
Symbol: Otud4
Synonyms: 4930431L18Rik; AI449692; D8Ert69e; mKIAA1046
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229375 representing NM_001256033
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCAGCCGTCGGCGGCCCGACGGCGTGGACCAGGGCGGCGTGGGGCCGCTGGAGGATGAGACGC
 CCATGGACGCCTATCTGCGCAAACCTGGGCTTGTATCGGAAATGGTCGCCAAGGACGGGTCGTGCTTGT
 CCGGGCTGTGGCCGAGCAGGTGTGCACCTCAGTCTCGGCATGTGGAGTTAGGATGGCCTGTATCCGC
 TACCTTCGAGAGAACAGAGAGAAATTTGAAGCGTTTATAGAAGGGTCATTTGAAGAATATTTAAACGTT
 TGGAAAATCCACAGGAATGGGTAGGACAAGTGGAAATAAGTGCCCTTTCACTTATGTACAGGAAAGATT
 TGTAATATATCAGGAGCCAAATGTTTCTCCTTCACATGTAACGAAAATAATTTCTGAGAAGGTGTTA
 CTGTGTTTTCAAATGGAATCATTATGACATTGTCTATCCCATAAACATATAAGATAGTTCTGCTATGT
 GTCAGTCTCTCCTTATGAGTTGCTGTATGAGAAGGATTCAAAACCTGATGTTAGTAAATCATGATGGG
 ACTAGAAGCCTCTGAGGTGGCTGAGGAGAGCAACAGTGAATATCAGACTCTGAGGACGACAGCTGCAAG
 AGTAAAAGTACTGCTGCTACTGATGTGAATGGATTTAAACCCTCAGGCAGTGAGAACCCTAAGAACAATG
 GAACTCAGTGCCTTCTTTGTCCAGAAAGGTTCTTAAGTCACTCAACCCAGCAGTATAGAAATGT
 GGAGTATGAAATTTGGTTGAAGTCTAAACAAGCTCAACAAAAACGTGATTATTCATTGCTGCTGGCTTA
 CAGTATGAAGTTGGAGATAAATGCCACCAAGTTAGATTGGATCATAATGGGAAATATCTAATGCAGACA
 TTCATGGGTTCACTCTGAGAATGGACTGGTTTTGTCTGAAGAACTGGGAAAAAACATACACCGAAGAA
 CCTCAAGCCACCTCCCCAGAAAGCTGGAACACGGTGTGAGGAAAGAAGATGAAAAAACCTAATTCTGGG
 CAAAATTTCCATTAGATACAGATTACAGAGGGCCAAAGAATCTAAACAAGCCAATCAAAGCCCCATCTG
 CACTACCTCCTCGACTCCAGCATCCTTCATCGGGTGAAGACAGCATGCATTCTCCAGTCATTCTACAGG
 GTCCAGTCTCAGAAATCCTCAGTGAGCATAAGAATCTAAGTAGGATGCCCTCACAGATACAAGAAAA
 CCTGACCGTGAAGGGCTGAGGACTTTGATCACGTGAGTCGTGAATCTTACTATTTTGGCCTCTCCCGAG
 AAGAACGCAGAGAGAAGCAAGCTATTGAAGAGTCTCGTTTACTGTATGAGATTCAGAACCGGGATGAACA
 GGCTTTCCCTGCCCTTCTAGTTCATCAGTCAGTCAGTCACCTTCTCAGAATAGCAATGCGTGTGTCCTCA
 AGGAAGTCTTCACATGCAAGGGACAGGAAAGGAAGCATGCGGAGAGCAGACGCAGAGGAACGAAAGGACA



AAGACTCTCTACGTGGCCATACTCATGTGGATAAAAAACCGGAGCCAAGCACACTGGAGATCAGCGATGA
TAAATGTACAAGAGTTTCATCACCATCTAAGTCAAAGAAAGAGTGCCCATCTCCTGTAGAACAAAAGCCA
GCAGAACATACCTTTGTCAAATCCAGCTCCCCTTCTAGTTTCTCCAGAAGTACATCTCACTCCTGCGG
TGCTTCTTTACCAGCCACTGTGCCAGCCTGGCCAAGTGAACCTACAACCTTCGGACCAACAGGTGTCCC
TGCTCAGATCCCATTTGTGTCAGTGACACAGACCCTGGACCTGATGCTGCCGTGCACAAGCGCATTTA
ACACCTTCTCCGGTTCCTGTGTCAATTCAGGCAGTTAACAGCCCTTGATGCCTTTGCCTCAGACAATGA
GCCTCTATCAAGACCCCTCTATCCTGGTTCCTTGTAGTGAGAAGGGAGATCGAGCCATTGCACCACC
TTATTCAGTGTGCAGACCGGGGAGGACCTGCCTAAAGATAAGAATATTCTTCGATTCTTCTTCAATCTC
GGTGTAAGGCATATAGTTGTCCTATGTGGGCCCCACATTCTTACCTATATCCTCTGCACCAGGCTATA
TGGCAGCCTGCAGGATGTACCCAAAGGTCCTGTTCCCGTGATCCTCAGAATACTTGGTCCAAGAAGC
CCCTCCTGCTCAGAGTGAAGTGACTGTCCTTGACCCGATGCCCACTACTCTCTGCACCCCGAGGCCAGT
GTTAATGGTCAGATGCCACAGGCAGAGATGGGACCGCCTGCATTTGCATCACCTCTGTTATCCCTCCAT
CTCAGGTGCTGAAGTCATGGACAATTGTCTTACCAACCTGAACTGGAGTCTGAGAACCAGGGCAGCT
TCTTCATGCTGAATATGAAGAGTCACTTAGTGGCAAGAACATGTACCCACAACAGTCTTTTGGCCCTAAC
CCATTTTTAGGTCTGTTCCCATTCACCTCCTTCTTCCCTCATGTTTGGTATGGGTATCCTTTTCAGG
GATTCGTAGAAAATCCTGTAATGAGGCAAAATATTGTCCTGCCCCCTGATGATAAAGGAGAATTGGATT
GCCTTTGGAGAATCTAGATCTGTCTAAAGAATGCGATTCTGTCTCAGCAGTAGATGAGTCCCAGACGCC
AGAGTTGAAGGTGCACATTCTCTGTCTGCACGAGTGTGAGCAGCAAGCAGGAAGCCGAGTGGAGCAGT
CGTCCCAGACCCGGAAGGCAGACATAGACTTGGCTTCAGGTTCTTCTGCAGTGAAGGAAAGGGTCATCC
TCCCCTCAGATTCTAACAGAGAAAGAGAACCTGGGTCTGCTGAACCTGAGCCTAAGAGGACCATTCAA
AGTCTGAAAGAAAACCAGAGAAAGTAAAAGATCCAAGACTGCTGCTGATGTGGTCAGCCCTGGGGCCA
ATTCTGTGGATAGATTGCAAAGACCAAAAAGAAGAGAGTTCAGAAGATGAGAATGAAGTATCTAATATTTT
GAGAAGTGGCAGATCCAAGCAGTTTTATAATCAAACCTACGGAAGCAGGAAGTACAAAAGTGATTGGGGC
TCTTCTGGTTCGAGGTGGCTATCAACACGTGAGAGGCGAGGAGTCTGGAAGGGCAGCCAAATCGAAGCC
GGGATGAAGGTTATCAGTACCATCGACATGTTAGAGGACGCCCATACAGGGGAGATAGGAGGAGATCAGG
GATGGGAGATGGCCACAGGGGACAACACTTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001256033
- Insert Size:** 3324 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:

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_001256033.1](#), [NP_001242962.1](#)

RefSeq Size: 7327 bp

RefSeq ORF: 3324 bp

Locus ID: 73945

UniProt ID: [B2RRE7](#)

Cytogenetics: 8 37.74 cM

Gene Summary: Deubiquitinase which hydrolyzes the isopeptide bond between the ubiquitin C-terminus and the lysine epsilon-amino group of the target protein. May negatively regulate inflammatory and pathogen recognition signaling in innate immune response. Upon phosphorylation at Ser-202 and Ser-204 residues, via IL-1 receptor and Toll-like receptor signaling pathway, specifically deubiquitinates 'Lys-63'-polyubiquitinated MYD88 adapter protein triggering down-regulation of NF-kappa-B-dependent transcription of inflammatory mediators (PubMed:29395066). Independently of the catalytic activity, acts as a scaffold for alternative deubiquitinases to assemble specific deubiquitinase-substrate complexes. Associates with USP7 and USP9X deubiquitinases to stabilize alkylation repair enzyme ALKBH3, thereby promoting the repair of alkylated DNA lesions (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.