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Product datasheet for MC223591

Otud4 (NM_001081164) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otud4 (NM_001081164) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Otud4
Synonyms:	4930431L18Rik; AI449692; D8Ertd69e; mKIAA1046
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223591 representing NM_001081164 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGGCAGCCGTCGGCGCGCCCGACGGCGTGGACCAGGGCGGCGTGGGGCCGCTGGAGGATGAGACGC CCATGGACGCCTATCTGCGCAAACTGGGCTTGTATCGGAAATTGGTCGCCAAGGACGGGTCGTGCTTGTT CCGGGCTGTGGCCGAGCAGGTGTTGCACTCTCAGTCTCGGCATGTGGAGGTTAGGATGGCCTGTATCCGC TACCTTCGAGAGAACAGAGAGAAATTTGAAGCGTTTATAGAAGGGTCATTTGAAGAATATTTAAAACGTT TGGAAAATCCACAGGAATGGGTAGGACAAGTGGAAATAAGTGCCCTTTCACTTATGTACAGGAAAGATTT TGTAATATATCAGGAGCCAAATGTTTCTCCTTCACATGTAACTGAAAATAATTTTCCTGAGAAGGTGTTA CTGTGTTTTTCAAATGGAAATCATTATGACATTGTCTATCCCATAACATATAAAGATAGTTCTGCTATGT GTCAGTCTCTCCTTTATGAGTTGCTGTATGAGAAGGTATTCAAAACTGATGTTAGTAAAATCATGATGGG ACTAGAAGCCTCTGAGGTGGCTGAGGAGAGCAACAGTGAGATATCAGACTCTGAGGACGACAGCTGCAAG AGTAAAAGTACTGCTGCTACTGATGTGAATGGATTTAAACCCTCAGGCAGTGAGAACCCTAAGAACAATG GGAACTCAGCTGACCTTCCTTTGTCCAGAAAGGTTCTTAAGTCACTCAACCCAGCAGTCTATAGAAATGT GGAGTATGAAATTTGGTTGAAGTCTAAACAAGCTCAACAAAAACGTGATTATTCCATTGCTGCTGGCTTA CAGTATGAAGTTGGAGATAAATGCCACGTTAGATTGGATCATAATGGGAAATTATCTAATGCAGACATTC ATGGGGTTCACTCTGAGAATGGACTGGTTTTGTCTGAAGAACTGGGGAAAAAACATACACCGAAGAACCT CAAGCCACCTCCCCCAGAAAGCTGGAACACGGTGTCAGGAAAGAAGATGAAAAAACCTAATTCTGGGCAA AATTTCCATTCAGATACAGATTACAGAGGGCCAAAGAATCTAAACAAGCCAATCAAAGCCCCATCTGCAC TACCTCCTCGACTCCAGCATCCTTCATCGGGTGTAAGACAGCATGCATTCTCCAGTCATTCTACAGGGTC CCAGTCTCAGAAATCCTCCAGTGAGCATAAGAATCTAAGTAGGATGCCCTCACAGATCACAAGAAAACCT GACCGTGAAAGGGCTGAGGACTTTGATCACGTGAGTCGTGAATCTTACTATTTTGGCCTCTCCCCAGAAG AACGCAGAGAGAAGCAAGCTATTGAAGAGTCTCGTTTACTGTATGAGATTCAGAACCGGGATGAACAGGC TTTCCCTGCCCTTTCTAGTTCATCAGTCAGTCAGTCACCTTCTCAGAATAGCAATGCGTGTGTCCCAAGG AAGTCTTCACATGCAAGGGACAGGAAAGGAAGCATGCGGAGAGCAGACGCAGAGGAACGAAAGGACAAAG

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ACTCTCTACGTGGCCATACTCATGTGGATAAAAAACCGGAGCCAAGCACACTGGAGATCAGCGATGATAA
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ATGAAGGTTATCAGTACCATCGACATGTTAGAGGACGCCCATACAGGGGAGATAGGAGGAGATCAGGGAT
GGGAGATGGCCACAGGGGACAACACACTTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001081164

Insert Size: 3321 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).

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_001081164.1, NP_001074633.1

RefSeq Size:	7324 bp
RefSeq ORF:	3321 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: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.