

Datasheet for ABIN7562050  
**OTUD4 Protein (AA 1-1107) (His tag)**



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## Overview

Quantity:	1 mg
Target:	OTUD4
Protein Characteristics:	AA 1-1107
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OTUD4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Otud4 Protein expressed in mammalian cells.
Sequence:	MEAAVGAPDG VDQGGVGGLE DETPMDAYLR KLGLYRKLVA KDGSCLFRAV AEQVLHSQSR HVEVRMACIR YLRENREKFE AFIEGSFEEY LKRELPQEW VGQVEISALS LMYRKDFVIY QEPNVSPSHV TENNFPEKVL LCFSNGNHYD IVYPITYKDS SAMCQSLLYE LLYEKVFKTD VSKIMMGLEA SEVAEESNSE ISDSEDDSC SKSTAATDVN GFKPSGSENP KNNGNSADLP LSRKVLKSLN PAVYRNVEYE IWLKSKQAQQ KRDYSIAAGL QEYVGDKCHQ VRLDHNGKLS NADIHGVHSE NGLVLSEELG KKHTPKNLKP PPPESWNTVS GKKMKKPNNG QNFHSDTDYR GPKNLNKPIK APSALPPRLQ HPSSGVRQHA FSSHSTGSQS QKSSSEHKNL SRMPSQITRK PDRERAEDFD HVSRESYYFG LSPEERREKQ AIEESRLLYE IQNRDEQAFP ALSSSSVSQS PSQNSNACVP RKSSHARDRK GSMRRADAE RKDKDSLGRH THVDKKPEPS TLEISDDKCT RVSSPSKSKK ECPSPEQKP AEHIPLSNPA PLLVSPEVHL TPAVPSLPAT VPAWPSEPTT FGPTGVPAQI PILSVTQTTG PDAAVSQAHL TPSPVPVSIQ AVNQPLMPLP QTMSLYQDPL YPGFPCSEKG DRAIAPPYSL CQTGEDLPKD KNILRFFFNL GVKAYSCPMW APHSYLYPLH

## Product Details

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QAYMAACRMY PKVPVPVYPQ NTFWQEAPPA QSESDCPCTD AHYSLHPEAS VNGQMPQAEM  
GPPAFASPLV IPPSQVSEGH GQLSYQPELE SENPGQLLHA EYEESLSGKN MYPQQSFGPN  
PFLGPVPIAP PFFPHVWYGY PFQGFVENPV MRQNIVLPPD DKGELDLPLE NLDLSKECDS  
VSAVDEFPDA RVEGAHSLSA ASVSSKHEGR VEQSSQTRKA DIDLASGSSA VEGKGHPPTQ  
ILNREREPS AEPEPKRTIQ SLKEKPEKVK DPKTAADVVS PGANSVDRLQ RPKEESEDE  
NEVSNILRSG RSKQFYNQTY GSRKYKSDWG SSGRGGYQHV RGEESWKGQP NRSRDEGYQY  
HRHVRGRPYR GDRRRSGMGD GHRGQHT **Sequence without tag. The proposed Purification-  
Tag is based on experiences with the expression system, a different complexity of the  
protein could make another tag necessary. In case you have a special request, please  
contact us.**

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Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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Grade: custom-made

## Target Details

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Target: OTUD4

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Alternative Name: Otud4 ([OTUD4 Products](#))

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Background: OTU domain-containing protein 4 (EC 3.4.19.12),FUNCTION: Deubiquitinase which hydrolyzes

## Target Details

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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). {ECO:0000250|UniProtKB:Q01804, ECO:0000269|PubMed:29395066}.

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Molecular Weight: 123.1 kDa

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UniProt: [B2RRE7](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months