

Datasheet for ABIN7555872  
**TTLL4 Protein (AA 1-1199) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	TTLL4
Protein Characteristics:	AA 1-1199
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant TTLL4 Protein expressed in mammalian cells.
Sequence:	MASAGTQHYS IGLRQKNSFK QSGPSGTVPA TPPEKPSEGR VWPQAHQQVK PIWKLEKKQV ETLSAGLGPG LLGVPPQPAY FFCPSTLCSS GTTAVIAGHS SSCYLHSLPD LFNSTLLYRR SSYRQKPYQQ LESFCLRSSP SEKSPFSLPQ KSLPVSLTAN KATSSMVFSM AQPMASSSTE PYLCLAAAGE NPSGKSLASA ISGKIPSPLS SSKPMLNNN SFMWPNSTPV PLLQTTQGLK PVSPPKIQPV SWHHSGGTGD CAPQPVDHKV PKSIGTVPAD ASAHIALSTA SSHDTSTTSV ASSWYNRNNL AMRAEPLSCA LDDSSDSQDP TKEIRFTEAV RKLRTARGFEK MPRQGCQLEQ SSFLNPSFQW NVLNRRRWK PPAVNQQFPQ EDAGSVRRVL PGASDTLGLD NTVFCTKRIS IHLLASHASG LNHNPACESV IDSSAFGEGK APGPPFPQTL GIANVATRLS SIQLGQSEKE RPEEARELDS SDRDISSATD LQPDQAETED TEEELVDGLE DCCSRDENEE EEGDSECSSL SAVSPSESVA MISRSCMEIL TKPLSNHEKV VRPALIYSLF PNVPTIYFG TRDERVEKLP WEQRKLLRWK MSTVTPNIVK QTIGRSHFKI SKRNDDWLGK WGHHMKSPSF RSIREHQKLN HFPGSFQIGR KDRLWRNLSR MQRFRGKKEF SFFPQSFILP QDAKLLRKAW ESSSRQKWIV

## Product Details

---

KPPASARGIG IQVIHKWSQL PKRRPLLVR YLHKPYLISG SKFDLRIYVY VTSYDPLRIY  
LFSDDLVRFA SCKYSPSMKS LGNKFMHLTN YSVNKKNAEY QANAEMACQ GHKWALKALW  
NYLSQKGVNS DAIWEKIKDV VVKTIISSEP YVTSLLKMYV RRPYSCHELF GFDIMLDENL  
KPWWLEVNIS PSLHSSSPLD ISIKGQMIRD LLNLAGFVLP NAEDISSPS SCSSTTSLP  
TSPGDKCRMA PEHVTAQKMK KAYYLTQKIP DQDFYASVLD VLTPDDVRIL VEMEDEFSSR  
GQFERIFPSH ISSRYLRFEE QPRYFNILTT QWEQKYHGK LKGVDLLRSW CYKGFHMGVV  
SDSAPVWSLP TSLLTISKDD VILNAFSKSE TSKLGKQSSC EVSLLLEDG TTPKSKKTQA  
GLSPYPQKPS SSKDSEDTSK EPSLSTQTLV VIKCSGQTSR LSASSTFQSI SDSLLAVSP **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.**

---

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.

---

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.

---

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

---

Grade: custom-made

## Target Details

---

Target: TTLL4

---

Alternative Name: TTLL4 ([TTLL4 Products](#))

---

## Target Details

---

**Background:** Tubulin monoglutamylase TTLL4 (EC 6.3.2.-) (Protein monoglutamylase TTLL4) (Tubulin--tyrosine ligase-like protein 4),FUNCTION: Monoglutamylase which modifies both tubulin and non-tubulin proteins, adding a single glutamate on the gamma-carboxyl group of specific glutamate residues of target proteins. Involved in the side-chain initiation step of the polyglutamylation reaction but not in the elongation step. Preferentially modifies beta-tail tubulin over the alpha-tubulin. Monoglutamylates nucleosome assembly proteins NAP1L1 and NAP1L4. Monoglutamylates nucleotidyltransferase CGAS, leading to inhibition of CGAS catalytic activity, thereby preventing antiviral defense function. Involved in KLF4 glutamylation which impedes its ubiquitination, thereby leading to somatic cell reprogramming, pluripotency maintenance and embryogenesis. {ECO:0000250|UniProtKB:Q80UG8}.

---

**Molecular Weight:** 133.4 kDa

---

**UniProt:** [Q14679](#)

## Application Details

---

**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.

---

**Restrictions:** For Research Use only

## Handling

---

**Format:** Liquid

---

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

---

**Handling Advice:** Avoid repeated freeze-thaw cycles.

---

**Storage:** -80 °C

---

**Storage Comment:** Store at -80°C.

---

**Expiry Date:** 12 months