

## Datasheet for ABIN7561995 TTLL3 Protein (AA 1-927) (His tag)



Overview

Quantity:	1 mg
Target:	TTLL3
Protein Characteristics:	AA 1-927
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Ttll3 Protein expressed in mammalian cells.
Sequence:	MQGVSSALLL SAGQLGPGAA WYRQEGSSEC SWLRRSQPSE LRTNFSSRWP WPRNSESRRS
	ERLQWPGPAS AKPEVASCGD SRRDYSSLPA RHLSSARESS MPGALGTVNP QPVRTLVPPT
	LDEPLPDALR PPDDSLLLWR GLTKGPNHMG RLRNAKIHVE RAVKQKKIFM IHGRYPVIRC
	LLRQRGWVEK KMVHPPGTAL PAPQKDLDSS MLGDSDATED EDEEENEMFR ESQLLDLDGF
	LEFDDLDGIH ALMSRMVRNE TPYLIWTTRR DVLDCRFLSK DQMINHYARA GSFTTKVGLC
	LNLRNLPWFD EADADSFFPR CYRLGAEDDK KAFIEDFWLT AARNVLKLVV KLEEKSQSIS
	IQAREEEAPE DTQPKKQEKK LVTVSSDFVD EALSACQEHL SSIAHKDIDK DPNSPLYLSP
	DDWSQFLQRY YQIVHEGAEL RYLEVQVQRC EDILQQLQNV VPQLDMEGDR NIWIVKPGAK
	SRGRGIMCMN RLDEMLKLVD CNPMLMKDGK WIVQKYIERP LLIFGTKFDL RQWFLVTDWN
	PLTVWFYRDS YIRFSTQPFS LKNLDNSVHL CNNSIQRHLE ASCHRHPMLP PDNMWSSQRF
	QAHLQEVDAP KAWSSVIVPG MKAAVIHALQ TSQDNVQCRK ASFELYGADF VFGEDFQPWL
	IEINASPTMA PSTAVTARLC AGVQADTLRV VIDRRLDRSC DTGAFELIYK QPAVEVPQYV

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	GIRLLVEGST IKKPVPVGHR RTGVRSSLPH LLTQQGSGES KDSGSPTHRS ASRKNARAES
	LEHTEKPEPA AVASVSGKGK KAPFHFPSLH SKAWLPSPRV HRPQGRVLRL QHDQLVGSKA
	LSTTGKALMT LPTAKVLMSF PPHPDLKLAP SMLKPGKVGF ELCCTTWRVV LSGGIGEEGH
	RQRAAPRPSS APGKGLSSTE PCSKTET 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:
	<ul> <li>Made to order protein - from design to production - by highly experienced protein experts.</li> <li>Protein expressed in mammalian cells and purified in one-step affinity chromatography</li> <li>The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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

## Target Details

Target:	TTLL3
Alternative Name:	Ttll3 (TTLL3 Products)
Background:	Tubulin monoglycylase TTLL3 (EC 6.3.2) (Tubulintyrosine ligase-like protein 3),FUNCTION:
	Monoglycylase which modifies alpha- and beta-tubulin, adding a single glycine on the gamma-
	carboxyl groups of specific glutamate residues to generate monoglycine side chains within the
	C-terminal tail of tubulin (PubMed:19524510). Not involved in elongation step of the
	polyglycylation reaction (PubMed:19524510). Preferentially glycylates a beta-tail peptide over

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	the alpha-tail, although shifts its preference toward alpha-tail as beta-tail glutamylation
	increases (By similarity). Competes with polyglutamylases for modification site on beta-tubulin
	substrate, thereby creating an anticorrelation between glycylation and glutamylation reactions
	(PubMed:33414192). Together with TTLL8, mediates microtubule glycylation of primary and
	motile cilia, which is essential for their stability and maintenance (PubMed:23897886,
	PubMed:25180231). Involved in microtubule glycylation of primary cilia in colon which controls
	cell proliferation of epithelial cells and plays an essential role in colon cancer development
	(PubMed:25180231). Together with TTLL8, glycylates sperm flagella which regulates axonemal
	dynein motor activity, thereby controlling flagellar beat, directional sperm swimming and male
	fertility (PubMed:33414192). {ECO:0000250 UniProtKB:B2GUB3,
	EC0:0000269 PubMed:19524510, EC0:0000269 PubMed:23897886,
	ECO:0000269 PubMed:25180231, ECO:0000269 PubMed:33414192}.
Molecular Weight:	104.4 kDa
UniProt:	A4Q9E5
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

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