Datasheet for ABIN7561996

TTLL6 Protein (AA 1-822) (His tag)

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Overview

Quantity:	1 mg
Target:	TTLL6
Protein Characteristics:	AA 1-822
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Ttll6 Protein expressed in mammalian cells.
Sequence:	MLQCLTSESE EGAEEREESS TEDLEELKEF VTLAFVRENT QKRLQNAQQH GKKKRKKKRL VINLSNCRYD SVRRAAQQYG LREAGDNDDW TLYWTDYSVS LERVMEMKSY QKINHFPGMS EICRKDLLAR NMSRMLKLFP KDFHFFPRTW CLPADWGDLQ TYSRTRKNKT YICKPDSGCQ GRGIFITRSV KEIKPGEDMI CQLYISKPFI IDGFKFDLRV YVLVTSCDPL RVFVYNEGLA RFATTSYSHP NLDNLDEICM HLTNYSINKH SSNFVQDAFS GSKRKLSTFN SYMKTHGYDV EQIWRGIEDV IIKTLISAHP VIKHNYHTCF PSHTLNSACF EILGFDILLD RKLKPWLLEV NHSPSFSTDS KLDKEVKDSL LYDALVLINL GNCDKKKVLE EERQRGRFLQ QCPNREIRLE EVKGFQAMRL QKTEEYEKKN CGGFRLIYPG LNLEKYDKFF QDNSSLFQNT VASRARELYA RQLIQELRQK QEKKVFLKKA RKEETQGESA GEQARDKVVR LQRQRQQPKC KTVATCPPKQ SLHPVTLVSC TSGLLLNIRG LKKGEISESL EQKDTKEAML IPCKPVSARN YSSVPDLRSA NPSCFEPEFH VPNAKVKEVK SAFMVNIEST AQPITSVESS RDATAPISTS LESLASMSLS TSPECSSPES VHMVSYNHKQ QKASFHKPMQ EKKSKPLMFS KSRHLDLNCT SMKNDINRQY

Product Details

	LMSEILQKVQ MKKKRPLFPA PKSQYPTLSK ERCPHSRSSS RKKEMNSPSV FVLQASHSRA ESLNDLLVVA TQARLDPRPS RSHSGTTTRD SSTQDPKHTA TA **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:	TTLL6
Alternative Name:	Ttll6 (TTLL6 Products)
Background:	Tubulin polyglutamylase TTLL6 (EC 6.3.2.-) (Protein polyglutamylase TTLL6) (Tubulin--tyrosine ligase-like protein 6),FUNCTION: Polyglutamylase which modifies both tubulin and non-tubulin proteins, generating alpha-linked polyglutamate side chains on the gamma-carboxyl group of specific glutamate residues of target proteins (PubMed:17499049, PubMed:21074048, PubMed:20530212, PubMed:26829768, PubMed:32747782). Preferentially mediates ATP-dependent long polyglutamate chain elongation over the initiation step of the polyglutamylation

Target Details

	reaction (PubMed:17499049, PubMed:21074048, PubMed:20530212, PubMed:26829768, PubMed:32747782). Preferentially modifies the alpha-tubulin tail over a beta-tail (PubMed:17499049, PubMed:20530212, PubMed:21074048, PubMed:32747782). Promotes tubulin polyglutamylation which stimulates spastin/SPAST-mediated microtubule severing, thereby regulating microtubule functions (PubMed:20530212). Mediates microtubule polyglutamylation in primary cilia axoneme which is important for ciliary structural formation and motility (PubMed:22246503). Mediates microtubule polyglutamylation in motile cilia, necessary for the regulation of ciliary coordinated beating (PubMed:23897886). Polyglutamylates non-tubulin protein nucleotidyltransferase CGAS, leading to CGAS DNA-binding inhibition, thereby preventing antiviral defense response (PubMed:26829768). {ECO:0000269|PubMed:17499049, ECO:0000269|PubMed:20530212, ECO:0000269|PubMed:21074048, ECO:0000269|PubMed:22246503, ECO:0000269|PubMed:23897886, ECO:0000269|PubMed:26829768, ECO:0000269|PubMed:32747782}.
Molecular Weight:	94.5 kDa
UniProt:	A4Q9E8

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