Datasheet for ABIN7545572

ZNF598 Protein (AA 1-904) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	ZNF598
Protein Characteristics:	AA 1-904
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZNF598 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ZNF598 Protein expressed in mammalian cells.
Sequence:	MAAAGGAEGR RAALEAAAAA APERGGGSCV LCCGDLEATA LGRCDHPVCY RCSTKMRVLC EQRYCAVCRE ELRQVVFGKK LPAFATIPIH QLQHEKKYDI YFADGKVYAL YRQLLQHECP RCPELPPFSL FGDLEQHMRR QHELFCCRLC LQHLQIFTYE RKWYSRKDLA RHRMQGDPDD TSHRGHPLCK FCDERYLDND ELLKHLRRDH YFCHFCDSDG AQDYYSDYAY LREHFREKHF LCEEGRCSTE QFTHAFRTEI DLKAHRTACH SRSRAEARQN RHIDLQFSYA PRHSRRNEGV VGGEDYEEVD RYSRQGRVAR AGTRGAQQSR RGSWRYKREE EDREVAAAVR ASVAAQQQEE ARRSEDQEEG GRPKKEEAAA RGPEDPRGPR RSPRTQGEGP GPKETSTNGP VSQEAFSVTG PAAPGCVGVP GALPPPSPKL KDEDFPSLSA STSSSCSTAA TPGPVGLALP YAIPARGRSA FQEEDFPALV SSVPKPGTAP TSLVSAWNSS SSSKKVAQPP LSAQATGSGQ PTRKAGKGSR GGRKGGPPFT QEEEEDGGPA LQELLSTRPT GSVSSTLGLA SIQPSKVGKK KKVGSEKPGT TLPQPPPATC PPGALQAPEA PASRAEGPVA VVVNGHTEGP APARSAPKEP PGLPRPLGSF PCPTPQEDFP ALGGPCPPRM PPPPGFSAVV LLKGTPPPPP PGLVPPISKP PPGFSGLLPS

Product Details

	PHPACVPSPA TTTTTKAPRL LPAPRAYLVP ENFRERNLQL IQSIRDFLQS DEARFSEFKS HSGEFRQGLI SAAQYYKSCR DLLGENFQKV FNELLVLLPD TAKQQELLSA HTDFCNREKP LSTKSKKNKK SAWQATTQQA GLDCRVCPTC QQVLAHGDAS SHQALHAARD DDFPSLQAIA RIIT **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:	ZNF598
Alternative Name:	ZNF598 (ZNF598 Products)
Background:	E3 ubiquitin-protein ligase ZNF598 (EC 2.3.2.27) (Zinc finger protein 598),FUNCTION: E3 ubiquitin-protein ligase that plays a key role in the ribosome quality control (RQC), a pathway that takes place when a ribosome has stalled during translation, leading to degradation of nascent peptide chains (PubMed:28065601, PubMed:28132843, PubMed:28685749, PubMed:32579943, PubMed:32099016, PubMed:33581075). ZNF598 is activated when

Target Details

	ribosomes are stalled within an mRNA following translation of prematurely polyadenylated mRNAs (PubMed:28065601, PubMed:28132843, PubMed:28685749). Acts as a ribosome collision sensor: specifically recognizes and binds collided di-ribosome, which arises when a trailing ribosome encounters a slower leading ribosome, leading to terminally arrest translation (PubMed:28065601, PubMed:28132843, PubMed:28685749, PubMed:30293783). Following binding to colliding ribosomes, mediates monoubiquitination of 40S ribosomal proteins RPS10/eS10 and RPS3/uS3, and 'Lys-63'-linked polyubiquitination of RPS20/uS10 (PubMed:28065601, PubMed:28132843, PubMed:28685749). Polyubiquitination of RPS20/uS10 promotes recruitment of the RQT (ribosome quality control trigger) complex, which drives the disassembly of stalled ribosomes, followed by degradation of nascent peptides (PubMed:32579943, PubMed:32099016, PubMed:36302773). E3 ubiquitin-protein ligase activity is dependent on the E2 ubiquitin-conjugating enzyme UBE2D3 (PubMed:28685749). Also acts as an adapter that recruits the 4EHP-GYF2 complex to mRNAs (PubMed:22751931, PubMed:32726578). Independently of its role in RQC, may also act as a negative regulator of interferon-stimulated gene (ISG) expression (PubMed:29719242). {ECO:0000269|PubMed:22751931, ECO:0000269|PubMed:28065601, ECO:0000269|PubMed:28132843, ECO:0000269|PubMed:28685749, ECO:0000269|PubMed:29719242, ECO:0000269|PubMed:30293783, ECO:0000269|PubMed:32099016, ECO:0000269|PubMed:32579943, ECO:0000269|PubMed:32726578, ECO:0000269|PubMed:33581075, ECO:0000269|PubMed:36302773}., FUNCTION: (Microbial infection) Required for poxvirus protein synthesis by mediating ubiquitination of RPS10/eS10 and RPS20/uS10 (PubMed:29719242). Poxvirus encoding mRNAs contain unusual 5' poly(A) leaders and ZNF598 is required for their translational efficiency, possibly via its ability to suppress readthrough or sliding on shorter poly(A) tracts (PubMed:29719242). {ECO:0000269|PubMed:29719242}.
Molecular Weight:	98.6 kDa
UniProt:	Q86UK7

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