

Datasheet for ABIN7552591
AUTS2 Protein (AA 1-1259) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	AUTS2
Protein Characteristics:	AA 1-1259
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AUTS2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant AUTS2 Protein expressed in mammalian cells.
Sequence:	MDGPTRGHGL RKKRRRSRSQR DRERRSRGGL GAGAAGGGGA GRTRALSLAS SSGSDKEDNG KPPSSAPSRP RPPRRKRRES TSAEEDIIDG FAMTSFVTFE ALEKDVALKP QERVEKRQTP LTKKKREALT NGLSFHSHKKS RLSHPHHYSS DRENDRNLCQ HLGKRKKMPK ALRQLKPGQN SCRDSSESA SGESKGFHRS SSRERLSDSS APSSLGTGYF CSDSDQEEK ASDASSEKLF NTVIVNKDPE LGVGTLPEDH SQDAGPIVPK ISGLERSQEK SQDCCKEPIF EPVVLKDPCP QVAQPIQPQ TEPQLRAPSP DPDLVQRTEA PPQPPPLSTQ PPQGPPEAQL QPAPQPQVQR PPRPQSPTQL LHQNLPPVQA HPSAQLSQP LSAYNSSLS LNSLSSSRSS TPAKTQPAPP HISHHPSASP FPLSLPNHSP LHSFTPTLQP PAHSHHPNMF APPTALPPPP PLTSGSLQVA GHPAGSTYSE QDILRQELNT RFLASQSADR GASLGPPPYL RTEFHQHQHQ HQTHTQHTHQ HTFTPFPHAI PPTAIMPTPA PPMFDKYPTK VDPFYRHSLF HSYPPAVSGI PPMIPPTGPF GSLQGAFQPK TSNPIDVAAR PGTVPHLLQ KDPRLTDPFR PMLRKPGKWC AMHVHIAWQI YHHQKVKKKQ MQSDPHKLDL GLKPEFLSRP PGPSLFGAIH HPHDLARPST LFSAAAGAAHP

Product Details

TGTPFGPPPH HSNFLNPAAH LEPFNRPSTF TGLAAVGGNA FGGLGNPSVT PNSMFGHKDG
PSVQNFSNPH EPWNRLHRTP PSFPTPPWL KPGELERSAS AAAHDRDRDV DKRDSSVSKD
DKERESVEKR HSSHPSAPV LPVNALGHTR SSTEQIR AHL NTEAREKDKP KERERDHSES
RKDLAADEHK AKEGHLPEKD GHGHEGRAAG EEAQQLARVP SPYVRTPVVE SARNSTSSR
EAEPKGEPA YENPKKSSEV KVKEERKEDH DLPPEAPQTH RASEPPPPNS SSSVHPGPLA
SMPMTVGVTG IHPMNSISL DRTRMMTPFM GISPLPGER FPYPSFHWDY IRDPLRDPYR
ELDIHRRDPL GRDFLLRNDP LHRLSTPRLY EADRSFRDRE PHDYSHHHHH HHHPLSVDPR
REHERGGHLD ERERLHMLRE DYEHTRLHSV HPASLDGHLP HPSLITPGLP SMHYPRISPT
AGNQNGLLNK TPPTAALSAP PPLISTLGGR PVSPRRTTPL SAEIRERPPS HTLKDIEAR **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: AUTS2

Target Details

Alternative Name: [AUTS2 \(AUTS2 Products\)](#)

Background: Autism susceptibility gene 2 protein,FUNCTION: Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones, it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility (PubMed:25519132). The PRC1-like complex that contains PCGF5, RNF2, CSNK2B, RYBP and AUTS2 has decreased histone H2A ubiquitination activity, due to the phosphorylation of RNF2 by CSNK2B (PubMed:25519132). As a consequence, the complex mediates transcriptional activation (PubMed:25519132). In the cytoplasm, plays a role in axon and dendrite elongation and in neuronal migration during embryonic brain development. Promotes reorganization of the actin cytoskeleton, lamellipodia formation and neurite elongation via its interaction with RAC guanine nucleotide exchange factors, which then leads to the activation of RAC1 (By similarity). {ECO:0000250|UniProtKB:A0A087WPF7, ECO:0000269|PubMed:25519132}.

Molecular Weight: 139.0 kDa

UniProt: [Q8WXX7](#)

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
