

Datasheet for ABIN7555860  
**TSHZ3 Protein (AA 1-1081) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TSHZ3
Protein Characteristics:	AA 1-1081
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TSHZ3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant TSHZ3 Protein expressed in mammalian cells.
Sequence:	<p>MPRRKQQAPR RAAAYVSEEL KAAALVDEGL DPEEHTADGE PSAKYMCEPK ELARACPSYQ NSPAAEFSCH EMDSESHISE TSDRMADFES GSIKNEEETK EVTVPLEDTT VSDSLEQMKA VYNNFLSNSY WSNLNLNLHQ PSSEKNNGSS SSSSSSSSSC GSGSFDWHQS AMAKTLQQVS QSRMLPEPSL FSTVQLYRQS SKLYGSIFTG ASKFRCKDCS AAYDTLVELT VHMNETGHYR DDNHETDNNN PKRWSKPRKR SLLEMEGKED AQKVLKCMYC GHSFESLQDL SVHMIKTKHY QKVPLKEPVT PVAAKIIPAT RKKASLELEL PSSPDSTGGT PKATISDTND ALQKNSNPYI TPNNRYGHQN GASYAWHFEA RKSQILKCMC CGSSHDTLQE LTAHMMVTGH FIKVTNSAMK KGKPIVETPV TPTITLLDE KVQSVPLAAT TFTSPSNTPA SISPKLNVEV KKEVDKEKAV TDEKPKQKDK PGEEEKCDI SSKYHYLTEN DLEESPKGGL DILKSLNTV TSAINKAQNG TPSWG GYPSI HAAYQLPNMM KLSLGSSGKS TPLKPMFGNS EIVSPTKNQT LVSPSSQTS PMPKTNFHAM EELVKKVTEK VAKVEEKMKE PDGKLSPPKR ATPSPCSSEV GEPIKMEASS DGGFRSQENS PSPPRDGCKD GSPLAEPVEN GKELVKPLAS SLSGSTAIIT DHPPEQPFVN</p>

## Product Details

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PLSALQSVMN IHLGKAAKPS LPALDPMSML FKMSNSLAEK AAVATPPPLQ SKKADHLDLY  
FYHVNNNDQPI DLTKGKSDKG CSLGSVLLSP TSTAPATSSS TVTTAKTSAV VSFMSNSPLR  
ENALSDISDM LKNLTESHTS KSSTPSSISE KSDIDGATLE EAEESTPAQK RKGRQSNWNP  
QHLLILQAQF AASLRQTSEG KYIMSDLSPQ ERMHISRFTG LSMTTISHWL ANVKYQLRRT  
GGTKFLKNLD TGHPVFFCND CASQIRTPST YISHLESHLG FRLRDLKLS TEQINSQIAQ  
TKSPSEKMVT SSPEEDLGTS YQCKLCNRTF ASKHAVKLHL SKTHGKSPED HLLYVSELEK Q

**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.**

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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.

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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.

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

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Grade: custom-made

## Target Details

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Target: TSHZ3

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Alternative Name: TSHZ3 ([TSHZ3 Products](#))

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Background: Teashirt homolog 3 (Zinc finger protein 537),FUNCTION: Transcriptional regulator involved in developmental processes. Functions in association with APBB1, SET and HDAC factors as a

## Target Details

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transcriptional repressor, that inhibits the expression of CASP4. TSHZ3-mediated transcription repression involves the recruitment of histone deacetylases HDAC1 and HDAC2. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s) (PubMed:19343227). Regulates the development of neurons involved in both respiratory rhythm and airflow control. Promotes maintenance of nucleus ambiguus (nA) motoneurons, which govern upper airway function, and establishes a respiratory rhythm generator (RRG) activity compatible with survival at birth. Involved in the differentiation of the proximal uretic smooth muscle cells during developmental processes. Involved in the up-regulation of myocardin, that directs the expression of smooth muscle cells in the proximal ureter (By similarity). Involved in the modulation of glutamatergic synaptic transmission and long-term synaptic potentiation (By similarity). {ECO:0000250|UniProtKB:Q8CGV9, ECO:0000269|PubMed:19343227}.

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Molecular Weight: 118.6 kDa

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UniProt: [Q63HK5](#)

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Pathways: [Regulation of Muscle Cell Differentiation](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months