

Datasheet for ABIN7561388

## T-Box 18 Protein (TBX18) (AA 1-613) (His tag)



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### Overview

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Quantity:                     | 1 mg                                            |
| Target:                       | T-Box 18 (TBX18)                                |
| Protein Characteristics:      | AA 1-613                                        |
| Origin:                       | Mouse                                           |
| Source:                       | HEK-293 Cells                                   |
| Protein Type:                 | Recombinant                                     |
| Purification tag / Conjugate: | This T-Box 18 protein is labelled with His tag. |

### Product Details

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:  | Custom-made recombinant Tbx18 Protein expressed in mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence: | <p>MAEKRRGSPC SMLSLKAHAF SVEALIGAEK QQQLQKKRRK LATEEAAGAV EDAGCSRSGG<br/>           AGEHGCSEAD EAAAAPPPAA GAASGPARGSC ADAERSCGSR GAAGSCEDGF LQGASPLASP<br/>           GGSPKGGSPVP GLARPGTLP APQAPRVDLQ GAELWKRFE IGTEMIITKA GRRMFPAMRV<br/>           KISGLDPHQY YYIAMDIVPV DNKRYRYVYH SSKWMVAGNA DSPVPPRVYI HPDSPASGET<br/>           WMRQVISFDK LKLTNNELDD QGHILHSMH KYQPRVHVIR KDCGDDLSPK KPVPSGEGVK<br/>           AFSFPETVFT TVTAYQNQI TRLKIDRNPF AKGFRDGRN RMGLEALVES YAFWRPSLRT<br/>           LTFEDIPGIP KQGNTSSAL LQGTGNAVPA THPHLLSGSS CSSPAFHLGP NTSQCLSLTP<br/>           ADYSACARSG LALNRYSTSL AETYSRLTNQ SSETFAPRPT PSYVSVSSNP SVNMSMGGTD<br/>           GDTFSCPQTS LSMQISGMSP QLQYIMPSPS GNAFAANQTH QSSYNTFRLH SPCALYGYNF<br/>           STSPKLAASP EKIVSSQGSF LGSSPSGTMT DRQMLPPVEG VHLLSSGGQQ SFFDSRTLGS<br/>           LTLPSQVSA HNV <b>Sequence without tag. The proposed Purification-Tag is based on<br/>           experiences with the expression system, a different complexity of the protein could make</b></p> |

**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:** T-Box 18 (TBX18)

**Alternative Name:** Tbx18 ([TBX18 Products](#))

**Background:** T-box transcription factor TBX18 (T-box protein 18),FUNCTION: Acts as a transcriptional repressor involved in developmental processes of a variety of tissues and organs, including the heart, the coronary vessels, the ureter, and the vertebral column. Required for embryonic development of the sino atrial node (SAN) head area. {ECO:0000269|PubMed:15155583, ECO:0000269|PubMed:16511601, ECO:0000269|PubMed:17584735, ECO:0000269|PubMed:19096026, ECO:0000269|PubMed:24016759}.

**Molecular Weight:** 65.5 kDa

**UniProt:** [Q9EPZ6](#)

**Pathways:** [Sensory Perception of Sound](#)

## 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                                                        |