

Datasheet for ABIN7554180

## IFT122 Protein (AA 1-1241) (His tag)



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### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | IFT122  |
| Protein Characteristics:      | AA 1-1241                                     |
| Origin:                       | Human   |
| Source:                       | HEK-293 Cells                                 |
| Protein Type:                 | Recombinant                                   |
| Purification tag / Conjugate: | This IFT122 protein is labelled with His tag. |

### Product Details

|           |  |
|-----------|--|
| Purpose:  | Custom-made recombinant IFT122 Protein expressed in mammalian cells.   |
| Sequence: | <p> MRAVLTWDRK AEHCINDIAF KPDGTQLILA AGSRLLVYDT SDGTLLQPLK GHKDTVYCVA<br/> YAKDGKRFAS GSADKSVIIW TSKLEGILKY THNDAIQCVS YNPITHQLAS CSSSDFGLWS<br/> PEQKSVSKHK SSSKIICCSW TNDGQYLALG MFNGIISIRN KNGEEKVKIE RPPGSLSPIW<br/> SICWNPSSRW ESFWMNRENE DAEDVIVNRY IQEIPSTLKS AVYSSQGSEA EEEEEPEEEDD<br/> SPRDDNLEER NDILAVADWG QKVSFYQLSG KQIGKDRLN FDPCCISYFT KGEYILLGGS<br/> DKQVSLFTKD GVRLGTVGEQ NSWWVTCQAK PDSNYVVVGC QDGTISFYQL IFSTVHGLYK<br/> DRYAYRDSMT DVIVQHLITE QKVRIKCKEL VKKIAIYRNR LAIQLPEKIL IYELYSDDL<br/> DMHYRVKEKI IKKFECNLLV VCANHIILCQ EKRLQCLSFS GVKEREWQME SLIRYIKVIG<br/> GPPGREGLLV GLKNGQILKI FVDNLFAIVL LKQATAVRCL DMSASRKKLA VVDENDTCLV<br/> YDIDTKELLF QEPNANSVAW NTQCEDMLCF SGGGYLNIKA STFPVHRQKL QGFVVGYNYS<br/> KIFCLHVFSI SAVEVPQSAP MYQYLDRKLF KEAYQIACLG VTDTDWRELA MEALEGLDFE<br/> TAKKAFIRVQ DLRYLELISS IEERKKRGET NNDLFLADV SYQGGKFHEAA KLYKRSGHEN </p> |

LALEMYTDLCLMFEYAKDFLGSGDPKETKMLITKQADWARNIKEPKAAVEMYISAGEHVKA  
IEICGDHGWVDMLIDIARKLDKAEREPLLLCATYLLKLDSPGYAAETYLKMGDLKSLVQL  
HVETQRWDEAFALGEKHPEFKDDIYMPYAQLWAENDRFEEAQKAFHKAGRQREAVQVLEQ  
LTNNAVAESRFNDAAAYYYWMLSMQCLDIAQDPAQKDTMLGKFYHFQRLAE LYHGYHAIHR  
HTEDPFSVHRPETLFNISRFLLHSLPKDTPSGISKVKILFTLAKQSKALGAYRLARHAYD  
KLRGLYIPARFQKSIELGTLTIRAKPFHDS EELVPLCYRCSTNNPLLNNLGNVCINCRQP  
FIFSASSYDV LHLVEFYLEE GITDEEAISLIDLEVLRPKRDDRQLEIANNSSQILRLVETKDSIGDEDPF  
TAKLSFEQGGSEFVPVVVSR LVLRSMSRRDVLIKRWPPPLRWQYFRSLLPDASITMCPSC  
FQMFHSEDYE LVLQHGCCPYCRRCKDDPGP

**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: IFT122

## Target Details

|                   |   |
|-------------------|---|
| Alternative Name: | IFT122 ( <a href="#">IFT122 Products</a> )  |
| Background:       | Intraflagellar transport protein 122 homolog (WD repeat-containing protein 10) (WD repeat-containing protein 140),FUNCTION: As a component of the IFT complex A (IFT-A), a complex required for retrograde ciliary transport and entry into cilia of G protein-coupled receptors (GPCRs), it is required in ciliogenesis and ciliary protein trafficking (PubMed:27932497, PubMed:29220510). Involved in cilia formation during neuronal patterning. Acts as a negative regulator of Shh signaling. Required to recruit TULP3 to primary cilia (By similarity). {ECO:0000250 UniProtKB:Q6NWX3, ECO:0000269 PubMed:27932497, ECO:0000269 PubMed:29220510}. |
| Molecular Weight: | 141.8 kDa   |
| UniProt:          | <a href="#">Q9HBG6</a>  |
| Pathways:         | <a href="#">Tube Formation</a> , <a href="#">Embryonic Body Morphogenesis</a>   |

## 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  |