

## Recombinant Human TF Protein, His-tagged

**Cat. No.** TF-551H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human TF protein with His tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | This gene encodes a glycoprotein with an approximate molecular weight of 76.5 kDa. It is thought to have been created as a result of an ancient gene duplication event that led to generation of homologous C and N-terminal domains each of which binds one ion of ferric iron. The function of this protein is to transport iron from the intestine, reticuloendothelial system, and liver parenchymal cells to all proliferating cells in the body. This protein may also have a physiologic role as granulocyte/pollen-binding protein (GPBP) involved in the removal of certain organic matter and allergens from serum. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 76 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MRLAVGALLVCAVLGLCLAVPDKTVRWCAVSEHEATKCQSFRDHMKSVIPSDGPSV<br>ACVKKASYLDCIRAIANEADAVTLTAGLVYDAYLAPNNLKPVVAEFYGSKEDPQTF<br>YYAVAVVKKDSGFQMNQLRGKKSCHTGLGRSAGWNIPIGLLYCDLPEPRKPLEKAV<br>ANFFSGSCAPCADGTDGFPQLCQLCPGCGCSTLNQYFGYSGAFKCLKDGAGDVAFV<br>KHSTIFENLANKADRDQYELLCLDNTRKPVDEYKDCHLAQVPSHTVVARSMGGKED<br>LIWELLNQAQEHFGKDKSKEFQLFSSPHGKDLLFKDSAHGFLKVPVRMDAKMYLGY                                                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EYVTAIRNLREGTCPEAPTDECKPVKWCALSHHERLKCDEWSVNSVGKIECVSAET  
 TEDCIAKIMNGEADAMSLDGGFVYIAGKCGLPVLAENYNKSDNCEDTPEAGYFAIA  
 VVKKSASDLTWDNLKGKKSCHTAVGRTAGWNIPMGLLYNKINHCRFDEFFSEGCAP  
 GSKKDSSLCKLCMGSLNLCEPNNKEGYGYTGAFRCLVEKGDVAFVKHQTVPQN  
 TGGKNPDPWAKNLNEKDYELLCLDGTRKPVVEYANCHLARAPNHAVTRKDKEAC  
 VHKILRQQQHLFGSNVTDCSGNFCLFRSETKDLLFRDDTVCLAKLHDRNTYEKYLGE  
 EYVKAVGNLRKCSTSSLLEACTFRRP

|                       |                                                                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 98%                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>   | WB; ELISA; FACS; FC                                                                                                                                                                                                                                                                      |
| <b>Stability</b>      | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).<br>After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.                                                                                |
| <b>Storage</b>        | At -20 centigrade.                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>  | 1 mg/mL                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b> | PBS (pH 7.4-7.5). Sterile-filtered colorless solution.                                                                                                                                                                                                                                   |
| <b>Reconstitution</b> | Reconstitute in sterile distilled H <sub>2</sub> O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance. |

## GENE INFORMATION

**Gene Name** TF transferrin [ Homo sapiens (human) ]

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|                 |                                                                                                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------|
| Official Symbol | TF                                                                                                                      |
| Synonyms        | TF; transferrin; serotransferrin; PRO1557; PRO2086; siderophilin; beta-1 metal-binding globulin; TFQTL1; DKFZp781D0156; |
| Gene ID         | 7018                                                                                                                    |
| mRNA Refseq     | NM_001063                                                                                                               |
| Protein Refseq  | NP_001054                                                                                                               |
| MIM             | 190000                                                                                                                  |
| UniProt ID      | P02787                                                                                                                  |

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