

# Active Recombinant Full Length Human GATA4 Protein, C-Flag-tagged

**Cat. No.** GATA4-501HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Recombinant Full Length Human GATA4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | Mammalian Cells  |
| <b>Description</b>      | This gene encodes a member of the GATA family of zinc-finger transcription factors. Members of this family recognize the GATA motif which is present in the promoters of many genes. This protein is thought to regulate genes involved in embryogenesis and in myocardial differentiation and function, and is necessary for normal testicular development. Mutations in this gene have been associated with cardiac septal defects. Additionally, alterations in gene expression have been associated with several cancer types. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.  |
| <b>Bio-activity</b>     | GATA4 Activity Verified in a DNA-binding Assay: Comparison of GATA4 binding to consensus and mutant oligos shows sensitivity of protein binding to the DNA sequence used.  |
| <b>Molecular Mass</b>   | 44.4 kDa   |
| <b>AA Sequence</b>      | MYQSLAMAANHGPPPGAYEAGGPGAFMHGAGAASSPVYVPTPRVPSSVLGLSYLQ  |

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

GGGAGSASGGASGGS SGG AASGAGPGTQQGSPGWSQAGADGAAYTPPPVSPR  
 FSFPGTTGSLAAAAAAAAAREAAAYSSGGGAAG AGLAGREQYGRAGFAGSYSSPY  
 PAYMADV GASWAAAAAASAGPFDSPVLHSLPGRANPAARHPNLDMFDD FSEGRE  
 CVNCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSC  
 ANCQTTTTT LWRRNAEGEPVCNACGLYMKLHGVRPLAMRKEGIQTRKRKPKNLN  
 KSKTPAAPSGSESLPPASGASSNS SNATTSSEEMRPIKTEPGLSSHYGHSSSVSQ  
 TFSVSAMSGHGPSIHPVLSALKLSPQGYASPVSQSPQT  
 SSKQDSWNSLVLADSHGDIITATRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                         |   |
|-------------------------|---|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.  |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.   |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors                                      |
| <b>Full Length</b>      | Full L.   |

## GENE INFORMATION

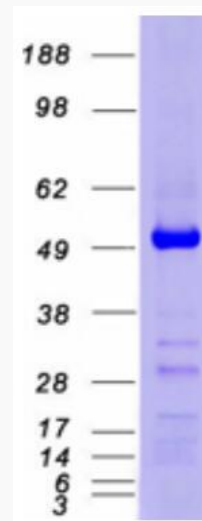
|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | GATA4 GATA binding protein 4 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | GATA4   |

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|                       |                        |
|-----------------------|------------------------|
| <b>Synonyms</b>       | TOF; ASD2; VSD1; TACHD |
| <b>Gene ID</b>        | 2626                   |
| <b>mRNA Refseq</b>    | NM_002052.5            |
| <b>Protein Refseq</b> | NP_002043.2            |
| <b>MIM</b>            | 600576                 |
| <b>UniProt ID</b>     | P43694                 |



Coomassie blue staining of purified GATA4 protein.

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