

## Recombinant Mouse GATA4 Protein (1-441 aa), His-Myc-tagged

**Cat. No.** GATA4-2441M    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Mouse GATA4 Protein (1-441 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Cancer. Protein Description: Full Length.

**Species**      Mouse

**Source**      E.coli

**ProteinLength**      1-441 aa


**Description**      Transcriptional activator that binds to the consensus sequence 5'-AGATAG-3' and plays a key role in cardiac development. In cooperation with TBX5, it binds to cardiac super-enhancers and promotes cardiomyocyte gene expression, while it downregulates endocardial and endothelial gene expression. Involved in bone morphogenetic protein (BMP)-mediated induction of cardiac-specific gene expression. Binds to BMP response element (BMPRE) DNA sequences within cardiac activating regions. Acts as a transcriptional activator of ANF in cooperation with NKX2-5. Promotes cardiac myocyte enlargement. Required during testicular development. May play a role in sphingolipid signaling by regulating the expression of sphingosine-1-phosphate degrading enzyme, sphingosine-1-phosphate lyase

**Form**      Tris-based buffer,50% glycerol

**Molecular Mass**      49.6 kDa

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<b>AA Sequence</b>	<p>MYQSLAMAANHGPPPGAYEAGGPGAFMHSAGAASSPVYVPTPRVPSSVLGLSYLQ  GGGSAAAAGTTSGGSSGAGPSGAGPGTQQGSPGWSQAGAEGAAYTPPVSPRF  SFPGTTGSLAAAAAAAAAREAAAYGSGGGAAGAGLAGREYGRPGFAGSYSSPYP  AYMADVGASWAAAAAASAGPFDSPVLHSLPGRANPGRHPNLDMFDDFSEGRECV  NCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSCAN  CQTTTTLLWRRNAEGEPVCNACGLYMKLHGVPRLAMRKEGIQTRKRKPKNLNKS  KTPAGPAGETLPPSSGASSGNSSNATSSSSSSEEMRPIKTEPGLSSHYGHSSSMSQ  TFSTVSGHGPSIHPVLSALKLSPQGYASPVTQTSQASSKQDSWNSLVLADSHGDIIT  A</p>
<b>Purity</b>	> 85% as determined by SDS-PAGE.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
<b>Concentration</b>	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

## GENE INFORMATION

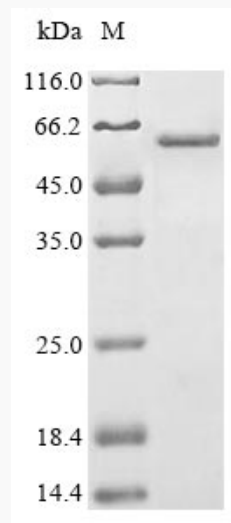
<b>Gene Name</b>	Gata4 GATA binding protein 4 [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	GATA4
<b>Synonyms</b>	GATA4; GATA binding protein 4; transcription factor GATA-4; GATA-binding factor 4; GATA-binding protein 4; Gata-4;

Gene ID 14463

mRNA Refseq NM\_008092

Protein Refseq NP\_032118

UniProt ID Q08369



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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