

## Product datasheet for **TP301618M**

### **GATA3 (NM\_002051) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human GATA binding protein 3 (GATA3), transcript variant 2, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC201618 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MEVTADQPRWVSHHHPAVLNGQHPDTHHPGLSHSYMDAAQYPLPEEVDVLFNIDGQGNHVPPYYGNSVRA TVQRYPPTHHGSQVCRPPLLHGSLPWLDGGKALGSHHTASPWNLSPFKTSIHGSPGPLSVYPPASSSS LSGGHASPFLFTFPPTPKDVSPDPSLSTPGSAGSARQDEKECLKYQVPLPDSMKLESSHSRGSMTALGG ASSSTHHPIITYPYVPEYSSGLFPPSSLLGGSPGFGCKSRPKARSSTEGRECVNCGATSTPLWRRDGT GHYLCNACGLYHKMNGQNRPLIKKRRLSAARRAGTSCANCQTTTTTLWRRNANGDPVCNACGLYKLNH INRPLTMKKEGIQTRNRKMSSKSKCKKVHDSLEDFPKNSSFNPAALSRHMSSLSHISPFSSSHMLTTP TPMHPPSSLSFGPHHPSSMVTAMG  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	47.7 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Bioactivity:</b>	GATA3 Activity Verified in a DNA-binding Assay: DNA binding activity of GATA3 as a function of protein concentration. Sensitivity to competitor oligonucleotide demonstrates specificity of protein-DNA binding. EMSA assay (PMID: <a href="https://pubmed.ncbi.nlm.nih.gov/26216189/">26216189</a> )
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_002042](#)

**Locus ID:** 2625

**UniProt ID:** [P23771](#)

**RefSeq Size:** 3067

**Cytogenetics:** 10p14

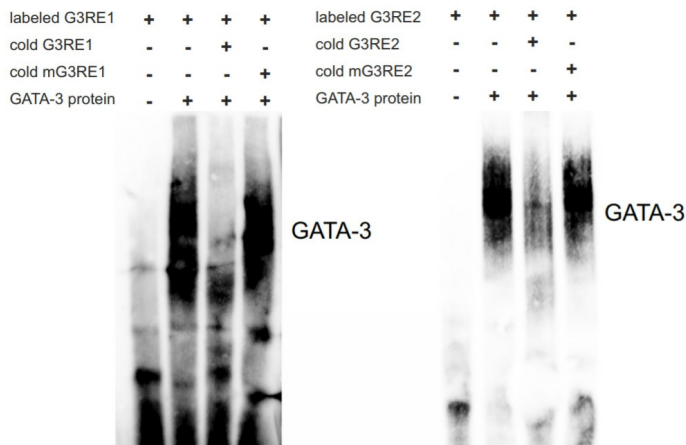
**RefSeq ORF:** 1332

**Synonyms:** HDR; HDRS

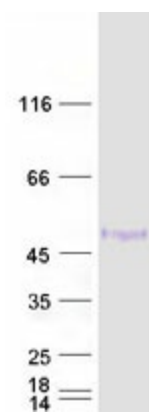
**Summary:** This gene encodes a protein which belongs to the GATA family of transcription factors. The protein contains two GATA-type zinc fingers and is an important regulator of T-cell development and plays an important role in endothelial cell biology. Defects in this gene are the cause of hypoparathyroidism with sensorineural deafness and renal dysplasia. [provided by RefSeq, Nov 2009]

**Protein Families:** Adult stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

### Product images:



Recombinant GATA-3 (OriGene [TP301618]) bound to the labeled G3RE1 and G3RE2 oligonucleotide probes in gel shift assays. This interaction was blocked by a mutant (m) G3RE1 or G3RE2 probe or excess non-labeled (cold) G3RE1 or G3RE2 probe. Figure cited from Sci Rep, PMID: 26216189



Coomassie blue staining of purified GATA3 protein (Cat# [TP301618]). The protein was produced from HEK293T cells transfected with GATA3 cDNA clone (Cat# [RC201618]) using MegaTran 2.0 (Cat# [TT210002]).