

## Product datasheet for TP301618

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

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human GATA binding protein 3 (GATA3), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201618 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	 MEVTADQPRVWVSHHHPAVLNGQHPDTHHPGLSHSYMDAAQYPLPEEVDVLFNIDGQGNHVPPYYGN SVRA TVQRYPPTHHGSQVCRPPLLHGSLPWLDGGKALGSHHTASPWNLSPFKTSIHHGSPGPLSVYPPASSSS LSGGHASPFLTFPPTPPKDVSPDPSLSTPGSAGSARQDEKECLKYQVPLPDSMKLESSHSRGSMTALGG ASSSTHHPIITYPPYVPEYSSGLFPPSSLLGGSPGFGCKSRPKARSSTEGRECVNCGATSTPLWRRDGT GHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTSCANCQTTTTLLWRRNANGDPVCNACGLYYKL HN INRPLTMKKEGIQTRNRKMSSKSKCKKVHDSLEDFPKNSSFNPAALSRHMSSLSHISPFSSHMLTTP TPMHPPSSLSFGPHHPSSMVTAMG  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	47.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	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> )
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**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

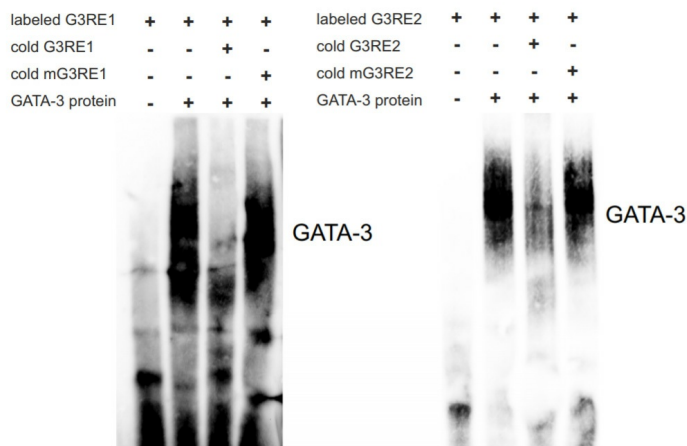
**RefSeq ORF:** 1332

**Synonyms:** HDR; HDRS

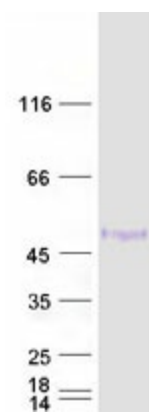
**Summary:** This gene encodes a protein which belongs to the GATA family of transcription factors. The protein contains two GATA-type zinc fingers and is an important regulator of T-cell development and plays an important role in endothelial cell biology. Defects in this gene are the cause of hypoparathyroidism 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]).