

Product datasheet for TP301618L

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, 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC201618 protein sequence

Clone or AA Red=Cloning site Green=Tags(s)

Sequence:

MEVTADQPRWVSHHHPAVLNGQHPDTHHPGLSHSYMDAAQYPLPEEVDVLFNIDGQGNHVPPYYGNSVRA
TVQRYPPTHHGSQVCRPPLLHGSLPWLDGGKALGSHHTASPWNLSPFKTSIHGSPGPLSVYPPASSSS
LSGGHASPFLFTFPPTPKDVSPDPSLSTPGSAGSARQDEKECLKYQVPLPDSMKLESSHSRGSMTALGG
ASSSTHHPIITYPYVPEYSSGLFPPSSLLGGSPTFGCKSRPKARSSTEGRECVNCGATSTPLWRRDGT
GHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTSCANCQTTTTTLWRRNANGDPVCNACGLYKLNH
INRPLTMKKEGIQTRNRKMSSKSKCKKVHDSLEDFPKNSSFNPAALSRHMSSLSHISPFSSSHMLTTP
TPMHPPSSLSFGPHHPSSMVTAMG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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: [26216189](https://pubmed.ncbi.nlm.nih.gov/26216189/))

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: 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

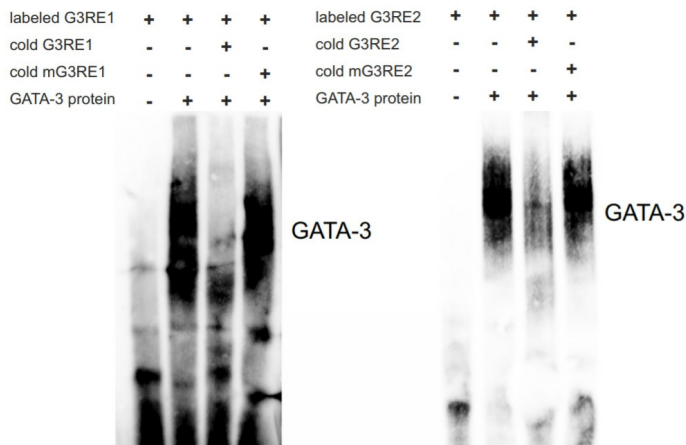
RefSeq ORF: 1332

Synonyms: HDR; HDRS

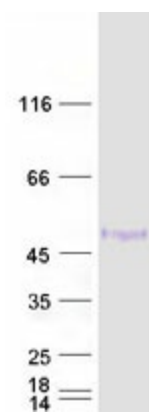
Summary: This gene encodes a protein which belongs to the GATA family of transcription factors. The protein contains two GATA-type zinc fingers and is an important regulator of T-cell development and plays an important role in endothelial cell biology. Defects in this gene are the cause of hypoparathyroidism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