

Product datasheet for **RG201618**

GATA3 (NM_002051) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | GATA3 (NM_002051) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GATA3 |
| Synonyms: | HDR; HDRS |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG201618 representing NM_002051
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCACCACCCGCGCTGCTCAACGGGCAGCACC
 CGGACACGCACCACCCGGGCTCAGCCACTCCTACATGGACGCGCGCAGTACCCGCTGCCGGAGGAGGT
 GGATGTGCTTTTTAACATCGACGGTCAAGGCAACCACGTCCCGCCCTACTACGAAACTCGGTACAGGCC
 ACGGTGCAGAGGTACCCTCCGACCCACCACGGGAGCCAGGTGTGCCGCCCGCCTCTGCTTCATGGATCCC
 TACCCTGGCTGGACGGCGCAAAGCCCTGGGCAGCCACCACCCGCTCCCCCTGGAATCTCAGCCCTT
 CTCAAGACGTCCATCCACCACGGCTCCCGGGGCCCTCTCCGCTACCCCCGGCCTCGTCCTCTCC
 TTGTGGGGGGCCACGCCAGCCGCACCTTTCACCTCCCGCCACCCCGCGAAGGACGTCTCCCGG
 ACCCATCGCTGTCCACCCAGGCTCGGCCGGCTCGGCCCGGCAGGACGAGAAAGAGTGCCTCAAGTACCA
 GGTGCCCTGCCGACAGCATGAAGCTGGAGTCGTCCTCCACTCCCGTGGCAGCATGACCGCCTGGGTGGA
 GCCTCCTCGTCGACCCACCACCCATCACCACTACCCGCTACGTGCCGAGTACAGTCCGGACTCT
 TCCCCCAGCAGCCTGCTGGGCGGCTCCCCACCCGGCTTCGGATGCAAGTCCAGGCCAAAGGCCGGTC
 CAGCACAGAAGGCAGGGAGTGTGTAAGTGTGGGGCAACCTCGACCCACTGTGGCGGCGAGATGGCAGC
 GGACTACTCTGTGCAACGCCTGCGGGCTCTATCACAATAAAGGACGACGAAACCGGCCCTCATTAAGC
 CCAAGCGAAGGCTGTCTGACCCAGGAGCAGGGACGTCCTGTGCGAAGTGTGAGACCACCACAACCAC
 ACTCTGGAGGAGGAATGCCAATGGGACCTGTCTGCAATGCCTGTGGGCTCTACTACAAGTTCACAAT
 ATTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCA
 AAAAGTGCAAAAAAGTGCATGACTCACTGGAGGACTTCCCAAGAACAGCTCGTTTAAACCGGCCGCCCT
 CTCAGACACATGTCTCCTGAGCCACATCTCGCCCTTCAGCCACTCCAGCCACATGCTGACCAGCCCC
 ACGCCGATGCACCCGCCATCCAGCCTGTCTTTGGACCACACCACCCCTCCAGCATGCTACCGCCATGG
 GT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201618 representing NM_002051
 Red=Cloning site Green=Tags(s)

MEVTADQPRWVSHHHPAVLNGQHPDTHHPGLSHSYMDAAQYPLPEEVDVLFNIDGQGNHVPYYPYGNVRA
 TVQRYPPTHHGSQVCRPPLLHGSLPWL DGGKALGSHHTASPNLSPFSKTSIHHGSPGPLSVYPPASSSS
 LSGGHASPHLFTFPPTPPKDVSPDPSLSTPGSAGSARQDEKECLKYQVPLPDSMKLESSHSRGSMTALGG
 ASSSTHHPITTYPPYVPEYSSGLFPPSSLLGGSPTGFGCKSRPKARSSTEGRECVNCGATSTPLWRRDGT
 GHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTSCANCQTTTTLWRRNANGDPVCNACGLYKLNH
 INRPLTMKKEGIQTRNRKMSKSKKCKKVHDSLEDFPKNSSFNPAALSRHMSSLSHISPFSSSHMLTTP
 TPMHPPSSLSFGPHHPSSMVTAMG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_002051

ORF Size: 1332 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

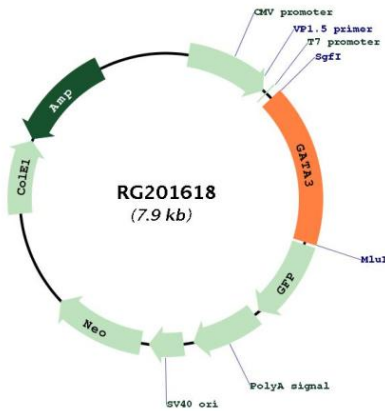
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_002051.2](#), [NP_002042.1](#)

RefSeq Size: 3067 bp
RefSeq ORF: 1332 bp
Locus ID: 2625
UniProt ID: [P23771](#)
Cytogenetics: 10p14
Domains: GATA
Protein Families: Adult stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
Gene 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]

Product images:



Circular map for RG201618