

## Product datasheet for **RG211904**

### **GATA3 (NM\_001002295) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GATA3 (NM_001002295) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG211904 representing NM\_001002295  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCACCACCCCGCGTCTCAACGGGCAGCACC  
 CGGACACGCACCACCCGGGCTCAGCCACTCTACATGGACGCGGCGCAGTACCCGCTGCCGGAGGAGT  
 GGATGTGCTTTTTAACATCGACGGTCAAGGCAACCACGTCGCCCTACTACGAAACTCGGTACGGCC  
 ACGGTGCAGAGGTACCCTCCGACCCACCACGGGAGCCAGGTGTGCCGCCCGCTCTGCTTCATGGATCCC  
 TACCCTGGCTGGACGGCGCAAAGCCCTGGGCAGCCACCACCCGCTCCCCCTGGAATCTCAGCCCCTT  
 CTCAAGACGTCCATCCACCACGGCTCCCCGGGGCCCTCTCCGCTACCCCCGGCCTCGTCCTCTCC  
 TTGTGGGGGGCCACGCCAGCCGCACCTTTCACCTCCCGCCACCCCGCGAAGGACGTCTCCCGG  
 ACCCATCGCTGTCCACCCAGGCTCGGCCGGCTCGGCCCGGCAGGACGAGAAAGAGTGCCTCAAGTACCA  
 GGTGCCCTGCCGACAGCATGAAGCTGGAGTCGTCCTCCACTCCCGTGGCAGCATGACCGCCCTGGGTGGA  
 GCCTCCTCGTCGACCCACCACCCATCACACCTACCCGCTACGTGCCGAGTACAGTCCGGACTCT  
 TCCCCCAGCAGCCTGCTGGGCGGCTCCCCACCGGCTTCGGATGCAAGTCCAGGCCAAAGGCCGGTC  
 CAGCACAGAAGGCAGGGAGTGTGGAAGTGTGGGGCAACCTCGACCCACTGTGGCGGCGAGATGGCAGC  
 GGACTACTGTGCAACGCCTGCGGGCTCTATCACAAGTGAACGGACAGAACCAGCCCTCATTAAGC  
 CCAAGCGAAGGCTGTCTGACCCAGGAGCAGGGACGTCCTGTGCGAAGTGTGAGACCACCACAACCAC  
 ACTCTGGAGGAGGAATGCCAATGGGGACCCTGTCTGCAATGCCTGTGGGCTCTACTACAAGTTCACAAT  
 ATTAACAGACCCCTGACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCA  
 AAAAGTGCAAAAAAGTGCATGACTCACTGGAGGACTTCCCAAGAACAGCTCGTTTAAACCCGGCCGCT  
 CTCAGACACATGTCTCCCTGAGCCACATCTCGCCCTTCAGCCACTCCAGCCACATGCTGACCAGCCCC  
 ACGCCGATGCACCCGCCATCCAGCCTGTCTTTGGACCACACCACCCCTCCAGCATGCTACCGCCATGG  
 GT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG211904 representing NM\_001002295  
 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\_001002295

**ORF Size:** 1332 bp

**OTI Disclaimer:** 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\\_001002295.2](#)

**RefSeq Size:** 3070 bp

**RefSeq ORF:** 1335 bp

**Locus ID:** 2625

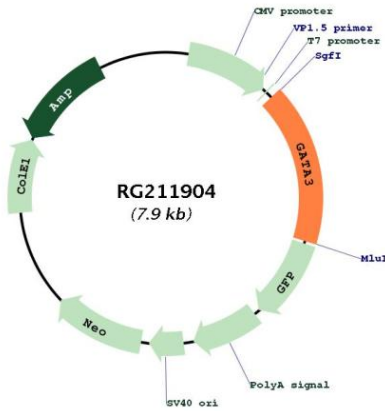
**UniProt ID:** [P23771](#)

**Cytogenetics:** 10p14

**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 RG211904