

## Product datasheet for **RG218399**

### **GATA5 (NM\_080473) Human Tagged ORF Clone**

#### Product data:

|                           |                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                       |
| Product Name:             | GATA5 (NM_080473) Human Tagged ORF Clone                                                  |
| Tag:                      | TurboGFP                                                                                  |
| Symbol:                   | GATA5                                                                                     |
| Synonyms:                 | bB379O24.1; CHTD5; GATAS                                                                  |
| Mammalian Cell Selection: | Neomycin                                                                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                    |
| ORF Nucleotide Sequence:  | <p>&gt;RG218399 representing NM_080473</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTACCAGAGCCTGGCGCTGGCCGCGAGCCCCGCCAGGCCGCCTACGCCGACTCGGGCTCCTTCCTGC  
 ACGCTCCGGGCGCCGGCTCTCCGATGTTTGTGCCGCGGCGCGCTCCCCTCGATGCTGTCTACCTGTC  
 CGGGTGTAGCCGAGCCCGCAGCCCCCGAGCTCGCTGCGCGCCCGGCTGGGCGCAGACAGCCACCGCG  
 GATTTCGTCGGCCTTCGGCCCGGGCAGTCCGACCCCCAGCCGCGCACCCGCCGGGGCCACCGCCTTCC  
 CTTTCGCGCACAGCCCCTCGGGGCCCGGCAGCGCGCGCAGCGCGGGGGCCGAGACGGCAGTGCCTACCA  
 GGGCGCGCTGTTGCCTCGAGAACAGTTCGCGGCCCCGCTTGGGCGGCCGGTGGGGACCTCGTACTCCGCC  
 ACCTACCCGGCCTACGTGAGCCCCGACGTGGCCAGTCTTGAGTGCCTGGGCGCCCTTCGATGGCAGCGTCC  
 TGCACGGCCTCCAGGCCGACGGCCACCTTCGTGTCCGACTTCTTGAGGAGTTCCTGGGTGAGGGTGC  
 TGAGTGTGTCAACTGCGGGGCCCTGTCCACACCGCTGTGGCGCCGAGACGGCACCAGGCCACTACCTGTGC  
 AATGCCTGCGCCTCTACCACAAGATGAATGGCGTCAACCGGCCGCTCGTTCGGCCTCAGAAGCGCCTGT  
 CCTCGTCCCGCCGCGCCGGCCTCTGTGCACCAACTGCCACACGACCAACACCACGCTGTGGCGGCGGAA  
 CTCGGAGGGGAGCCCGTGTGAATGCCTGCGGCTCTACATGAAGCTGCACGGGGTCCCGCGCCCTCTG  
 GCTATGAAGAAAGAAAGCATCCAGACACGGAAGCGGAAGCCAAAGACCATCGCCAAGGCCAGGGGCTCCT  
 CAGGATCCACAAGGAATGCCTCGGCCTCCCATCTGCTGTGCGCCAGCACTGACAGCTCAGCAGCCACTTC  
 GAAAGCCAAGCCAGCCTGGCGTCCCCAGTGTGCCTGGGCCAGCATGGCCCCCAGGCCCTCTGGCCAG  
 GAGGATGACTCTTTGCCCGCGCCACTTGAGTTCAAGTTCGAGCCTGAGGACTTTGCCTTCCCTCCA  
 CGGCCCAAGCCCCAGGCTGGCCTCAGGGGGCTCTGCGCCAAGAGGCTGGTGTGCGCTGGCCTTGGC  
 C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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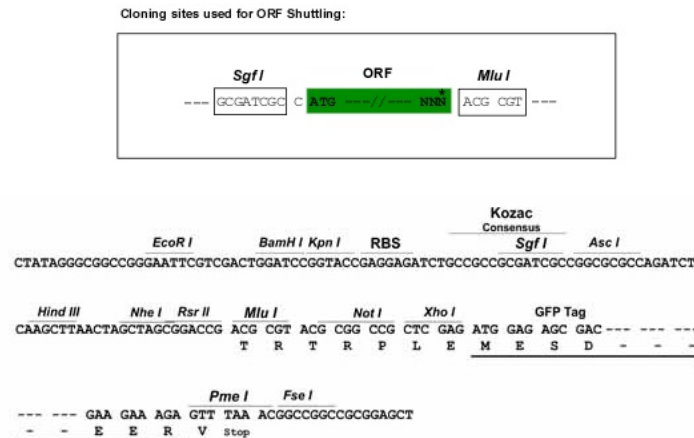
**Protein Sequence:** >RG218399 representing NM\_080473  
 Red=Cloning site Green=Tags(s)

MYQSLALAASPRQAAYADSGSFLHAPGAGSPMFVPPARVPSMLS YL SGCEPSPQPPELAARPGWAQTATA  
 DSSAFPGSPHPPAAHPPGATAFPFAHSPSGPGSGGSAGGRDGSAYQGALLPREQFAAPLGRPVGTSYSA  
 TYPAYVSPDVAQSWTAGPFDGSVLHGLPGRRPTFVSDFLEEFPGEGRECVCNCGALSTPLWRRDGTGHYLC  
 NACGLYHKMNGVNRPLVRPQKRLSSRRAGLCCTNCHTTNTTLWRRNSEGEPVCNACGLYMKLHGVPRL  
 AMKKESIQTRKRKPKTIAKARGSSGSTRNASASPSAVASTDSSAATSKAKPSLASPVCPGPSMAPQASGQ  
 EDDSLAPGHLEFKFEPEDFAFPSTAPSPQAGLRGALRQEAWCALALA

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_080473

**ORF Size:** 1191 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_080473.3](#), [NP\\_536721.1](#)

**RefSeq Size:** 2630 bp

**RefSeq ORF:** 1194 bp

**Locus ID:** 140628

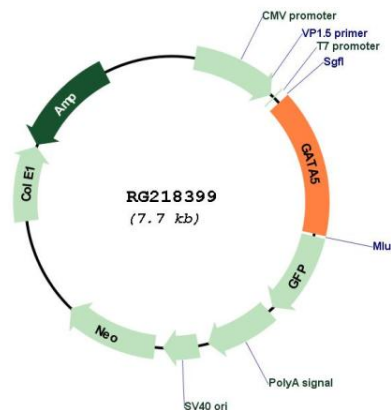
**UniProt ID:** [Q9BWX5](#)

**Cytogenetics:** 20q13.33

**Protein Families:** Transcription Factors

**Gene Summary:** The protein encoded by this gene is a transcription factor that contains two GATA-type zinc fingers. The encoded protein is known to bind to hepatocyte nuclear factor-1alpha (HNF-1alpha), and this interaction is essential for cooperative activation of the intestinal lactase-phlorizin hydrolase promoter. In other organisms, similar proteins may be involved in the establishment of cardiac smooth muscle cell diversity. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG218399