

Product datasheet for RC218399

GATA5 (NM_080473) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	GATA5
Synonyms:	bB379O24.1; CHTD5; GATAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218399 representing NM_080473 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCAGAGCCTGGCGCTGGCCGCGAGCCCCGCCAGGCCGCTACGCCGACTCGGGCTCCTTCCTGC
ACGCTCCGGGCGCCGGCTCTCCGATGTTTGTGCCGCGGGCGCGCTCCCTCGATGCTGTCTACCTGTC
CGGGTGTGAGCCGAGCCCGCAGCCCCCGAGCTCGCTGCGCGCCCGGCTGGGCGCAGACAGCCACCGCG
GATTCGTGGCCTTCGGCCCGGGCAGTCCGACCCCCAGCCGCGCAGCCGCGGGGCCACCGCCTTCC
CTTTCGCGCACAGCCCCTCGGGGCCCGCAGCGCGGCGAGCGGGGGGCCGAGACGGCAGTGCCCTACCA
GGGCGCGCTGTTGCCTCGAGAACAGTTCGCGGCCCGCTTGGGCGGCCGCTGGGGACCTCGTACTCCGCC
ACCTACCGGCCCTACGTGAGCCCCGACGTGGCCAGTCTGGACTGCCGGGCCCTTCGATGGCAGCGTCC
TGACGGCCTCCAGGCCGAGGCCACCTTCGTGTCCGACTTCTTGAGGAGTTCGCGGTGAGGGTCCG
TGAGTGTGTAAGTGGGGGCCCTGTCCACACCGCTGTGGCGCCGAGATGGCAGCGGCCACTACCTGTGC
AATGCCTGCGGCTCTACCACAAGATGAATGGCGTCAACCGGCCGCTCGTTCGGCCTCAGAAGCGCCTGT
CCTCGTCCCGCGCGCCGCCCTCTGCTGCACCAACTGCCACACGACCAACACCACGCTGTGGCGCGGAA
CTCGAGGGGGAGCCCGTGTGAATGCCTGCGGCTCTACATGAAGCTGCAGGGGTGCCCGGCCCTCTG
GCTATGAAGAAAGAAAGCATCCAGACACGAAGCGGAAGCAAAGACCATCGCCAAGGCCAGGGGCTCCT
CAGGATCCACAAGGAATGCCTCGGCCTCCCATCTGCTGTGCGCCAGCACTGACAGCTCAGCAGCCACTTC
CAAAGCCAAGCCAGCCTGGCGTCCCCAGTGTGCCCTGGGCCAGCATGGCCCCCAGGCCCTCTGGCCAG
GAGGATGACTCTTTGCCCCGGCCACTTGAGTTCAAGTTCGAGCCTGAGGACTTTGCCTTCCCTCCA
CGGCCCCGAGCCCCAGGCTGGCCTCAGGGGGCTCTGCGCCAAGAGGCTGGTGTGCGCTGGCCTTGGC
C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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 Red=Cloning site Green=Tags(s)

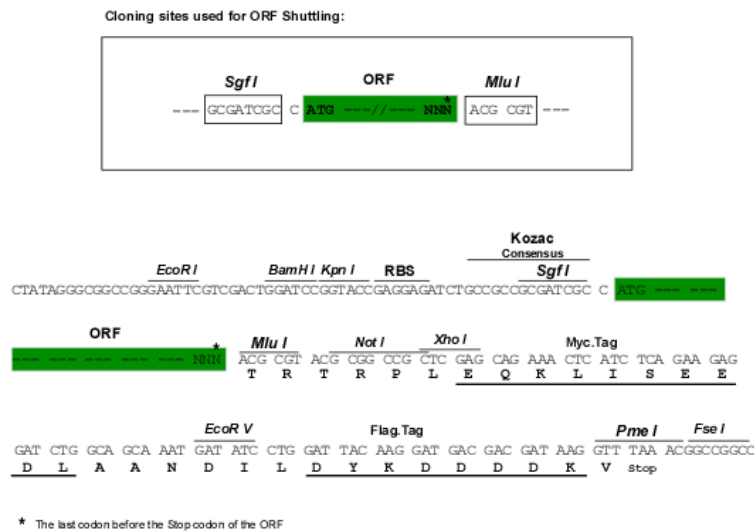
MYQSLALAASPRQAAAYADSGSFLHAPGAGSPMFVPPARVPSMLS YL SGCEPSPQPPELAARPGWAQTATA
 DSSAFGPGSPHPPAAHPPGATAFPFAHSPSGPGSGGSAGGRDGSAYQGALLPREQFAAPLGRPVGTSYSA
 TYPAYVSPDVAQSWTAGPFDGSVLHGLPGRRPTFVSDFLEEFPGEGRECVCNCGALSTPLWRRDGTGHYLC
 NACGLYHKMNGVNRPLVRPQKRLSSSRAGLCCTNCHTTNTTLWRRNSEGEPVCNACGLYMKLHGVPRL
 AMKKESIQTRKRKPKTIAKARGSSGSTRNASASPSAVASTDSSAATSKAKPSLASPVCPGPSMAPQASGQ
 EDDSLAPGHLEFKFEPEDFAFPSTAPSPQAGLRGALRQEAWCALALA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3350_e12.zip

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_080473.5](#)

RefSeq Size: 2630 bp

RefSeq ORF: 1194 bp

Locus ID: 140628

UniProt ID: [Q9BWX5](#)

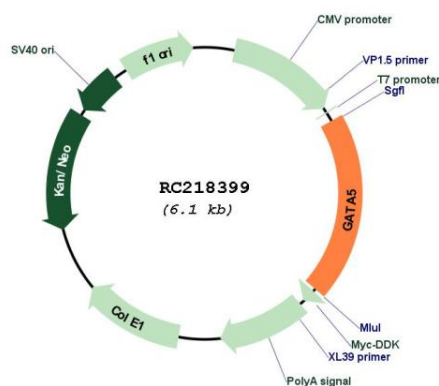
Cytogenetics: 20q13.33

Protein Families: Transcription Factors

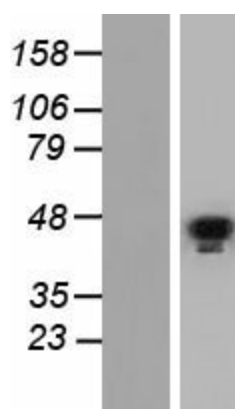
MW: 41.1 kDa

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 RC218399



Western blot validation of overexpression lysate (Cat# [LY409175]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218399 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).