

Product datasheet for **RG210945**

GATA4 (NM_002052) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GATA4 (NM_002052) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GATA4
Synonyms:	ASD2; TACHD; TOF; VSD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210945 representing NM_002052 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATCAGAGCTTGGCCATGGCCGCCAACACGGGCCGCCCCCGGTGCCTACGAGGGGGCGGCCCG
GCGCCTTCATGCACGGCGCGGGCGCCGCTCCTCGCCAGTCTACGTGCCACACCGGGTGCCTCCTC
CGTGCTGGGCTGTCTACCTCCAGGGCGGAGGCGGGCTCTGCGTCCGGAGGCGCCTCGGGCGGAGC
TCCGGTGGGCGCGTCTGGTGGGGGCCGGGACCCAGCAGGGCAGCCGGGATGGAGCCAGGCGGGAG
CCGACGGAGCCGCTTACACCCCGCGCCGGTGTCCGCGCTTCTCCTTCCGGGGACCACCGGGTCCCT
GGCGGCCCGCCGCGCTGCCGCGGCCGGAAGCTGCGGCCTACAGCAGTGGCGGCGGAGCGGGGT
GCGGGCTGGCGGGCCGCGAGCAGTACGGGCGCGCGGCTTCGCGGGCTCCTACTCCAGCCCTACCCGG
CTTACATGGCCGACGTGGGCGCGTCTGGGCGCGACCGCGCCGCTCCGCGGCCCTTCGACAGCCC
GGTCTGCACAGCCTGCCCGCCGGGCCAACCCGGCCGCCGACACCCCAATCTCGATATGTTTGACGAC
TTCTCAGAAGGCAGAGAGTGTGCAACTGTGGGCTATGTCCACCCGCTCTGGAGGCGAGATGGGACGG
GTCAGCGCCGGCTGTCCGCTCCCGCGAGTGGGCTCTCCTGTGCCAACTGCCAGACCACCACCAGC
CTGTGGCGCCGCAATGCGGAGGGCGAGCCTGTGTGCAATGCCTGCGGCCCTACATGAAGTCCACGGGG
TACCCAGGCTCTTGCAATGCGGAAAGAGGGGATCCAAACCAGAAAACGGAAGCCCAAGAACCTGAATAA
ATCTAAGACACCAGCAGCTCCTTACGGCAGTGAGACCTTCTCCCGCCAGCGGTGCTTCCAGCACTCC
AGCAACGCCACCACCAGCAGCAGGAGATGCGTCCCATCAAGACGGAGCCTGGCCTGTCTCACTCACT
ACGGGCACAGCAGCTCCGTGTCCAGACGTTCTCAGTCAGTGCATGTCTGGCCATGGGCCCTCCATCCA
CCCTGTCTCTCGGCCCTGAAGCTCTCCCAAGGCTATGCGTCTCCCGTCAGCCAGTCTCCACAGACC
AGCTCCAAGCAGGACTCTTGAACAGCCTGGTCTTGGCCGACAGTCACGGGGACATAATCACTGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210945 representing NM_002052
 Red=Cloning site Green=Tags(s)

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MYQSLAMAANHGPPPGAYEAGGPGAFMHGAGAASSPVYVPTPRVPSSVLGLSYLQGGGAGSASGGASGGG
SGGAASGAGPGTQQGSPGWSQAGADGAA YTPPVSPRFSFPGTTGSLAAAAAAAAAREAAAYSSGGGAAG
AGLAGREQYGRAGFAGSYSSPYPAYMADVGASWAAAAAASAGPFDSPVLHSLPGRANPAARHPNLDMFDD
FSEGRECVNCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSCANCQTTTTT
LWRRNAEGEPVCNACGLYMKLHGVPRLAMRKEGIQTRKRKPKNLNKS KTPAAPSGSESLPPASGASSNS
SNATTSSEEMRPIKTEPGLSSHYGHSSVSQTFSVSAMS GHGPSIHPVLSALKLSPQGYASPVSQSPQT
SSKQDSWNSLVLADSHGDIITA
  
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002052

ORF Size: 1326 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_002052.2](#), [NP_002043.2](#)

RefSeq Size: 3372 bp

RefSeq ORF: 1329 bp

Locus ID: 2626

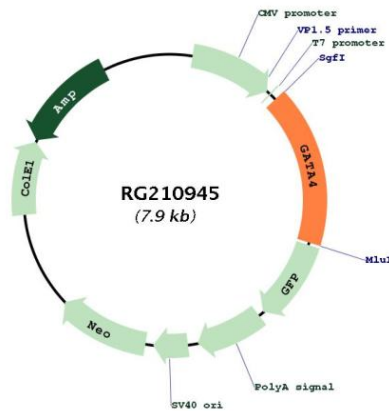
UniProt ID: [P43694](#)

Cytogenetics: 8p23.1

Protein Families: Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors

Gene Summary: This gene encodes a member of the GATA family of zinc-finger transcription factors. Members of this family recognize the GATA motif which is present in the promoters of many genes. This protein is thought to regulate genes involved in embryogenesis and in myocardial differentiation and function, and is necessary for normal testicular development. Mutations in this gene have been associated with cardiac septal defects. Additionally, alterations in gene expression have been associated with several cancer types. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Product images:



Circular map for RG210945