OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC402612

GATA1 (NM_002049) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	GATA1 (NM_002049) Human Mutant ORF Clone
Mutation Description:	R216Q
Affected Codon#:	216
Affected NT#:	647
Nucleotide Mutation:	GATA1 Mutant (R216Q), Myc-DDK-tagged ORF clone of Homo sapiens GATA binding protein 1 (globin transcription factor 1) (GATA1) as transfection-ready DNA
Effect:	Thromboyopeni 1
Symbol:	GATA1
Synonyms:	ERYF1; GATA-1; GF-1; GF1; NF-E1; NFE1; XLANP; XLTDA; XLTT
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_002049
ORF Size:	1239 bp
Restriction Sites:	SgfI-MluI

View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>RC402612 representing NM_002049
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTTCCCTGGCCTGGGGTCCCTGGGGACCTCAGAGCCCCTCCCCCAGTTTGTGGATCCTGCTCTGG
TGTCCTCCACACCAGAATCAGGGGTTTTCTTCCCCTCTGGGCCTGAGGGCTTGGATGCAGCAGCTTCCTC
CACTGCCCCGAGCACAGCCACCGCTGCAGCTGCGGCACTGGCCTACTACAGGGACGCTGAGGCCTACAGA
CACTCCCCAGTCTTTCAGGTGTACCCATTGCTCAACTGTATGGAGGGGATCCCAGGGGGCTCACCATATG
CCGGCTGGGCCTACGGCAAGACGGGGCTCTACCCTGCCTCAACTGTGTGTCCCACCCGCGAGGACTCTCC
TCCCCAGGCCGTGGAAGATCTGGATGGAAAAGGCAGCACCAGCTTCCTGGAGACTTTGAAGACAGAGCGG
CTGAGCCCAGACCTCCTGACCCTGGGACCTGCACTGCCTTCATCACTCCCTGTCCCCAATAGTGCTTATG
GGGGCCCTGACTTTTCCAGTACCTTCTTTTCTCCCACCGGGAGCCCCCTCAATTCAGCAGCCTATTCCTC
TCCCAAGCTTCGTGGAACTCTCCCCCTGCCTCCCTGTGAGGCCAGGGAGTGTGTGAACTGCGGAGCAACA
GCCACTCCACTGTGGCAGAGGGACAGGACAGGCCACTACCTATGCAACGCCTGCGGCCTCTATCACAAGA
TGAATGGGCAGAACAGGCCCCTCATCCGGCCCAAGAAGCGCCTGATTGTCAGTAAACGGGCAGGTACTCA
GTGCACCAACTGCCAGACGACCACCACGACACTGTGGCGGAGAAATGCCAGTGGGGATCCCGTGTGCAAT
GCCTGCGGCCTCTACTACAAGCTACACCAGGTGAACCGGCCACTGACCATGCGGAAGGATGGTATTCAGA
CTCGAAACCGCAAGGCATCTGGAAAAGGGAAAAAGAAACGGGGCTCCAGTCTGGGAGGCACAGGAGCAGC
CGAAGGACCAGCTGGTGGCTTTATGGTGGTGGCTGGGGGCAGCGGTAGCGGGAATTGTGGGGAGGTGGCT
TCAGGCCTGACACTGGGCCCCCCAGGTACTGCCCATCTCTACCAAGGCCTGGGCCCTGTGGTGCTGTCAG
GGCCTGTTAGCCACCTCATGCCTTTCCCTGGACCCCTACTGGGCTCACCCACGGGCTCCTTCCCCACAGG
CCCCATGCCCCCCACCACCAGCACTACTGTGGTGGCTCCGCTCAGCTCA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC402612 representing NM_002049
Red=Cloning site Green=Tags(s)

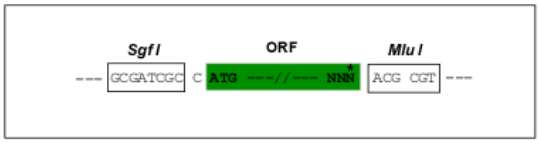
MEFPGLGSLGTSEPLPQFVDPALVSSTPESGVFFPSGPEGLDAAASSTAPSTATAAAAALAYYRDAEAYR
HSPVFQVYPLLNCMEGIPGGSPYAGWAYGKTGLYPASTVCPTREDSPPQAVEDLDGKGSTSFLETLKTER
LSPDLLTLGPALPSSLPVPNSAYGGPDFSSTFFSPTGSPLNSAAYSSPKLRGTLPLPPCEARECVNCGAT
ATPLWQRDRTGHYLCNACGLYHKMNGQNRPLIRPKKRLIVSKRAGTQCTNCQTTTTTLWRRNASGDPVCN
ACGLYYKLHQVNRPLTMRKDGIQTRNRKASGKGKKKRGSSLGGTGAAEGPAGGFMVVAGGSGSGNCGEVA
SGLTLGPPGTAHLYQGLGPVVLSGPVSHLMPFPGPLLGSPTGSFPTGPMPPTTSTTVVAPLSS

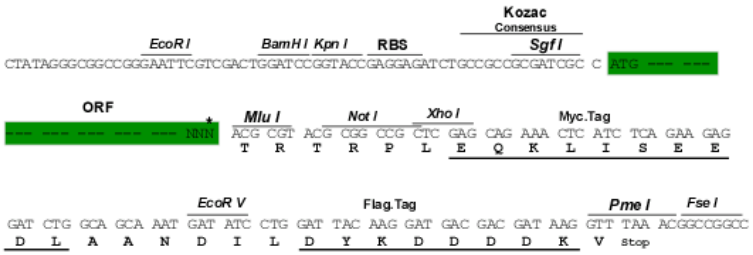
SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cloning Scheme:





* The last codon before the Stop codon of the ORF

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).

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

RefSeq: NP_002040

RefSeq Size: 1239 bp

RefSeq ORF: 1242 bp

Locus ID: 2623

Cytogenetics: Xp11.23

Domains: GATA

Protein Families: Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

MW: 45.4 kDa

Gene Summary: This gene encodes a protein which belongs to the GATA family of transcription factors. The protein plays an important role in erythroid development by regulating the switch of fetal hemoglobin to adult hemoglobin. Mutations in this gene have been associated with X-linked dyserythropoietic anemia and thrombocytopenia. [provided by RefSeq, Jul 2008]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US