

Product datasheet for MR226904

Gata1 (NM_008089) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gata1 (NM_008089) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gata1
Synonyms:	eryf1; Gata-1; Gf-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226904 representing NM_008089 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTTCCTGGTCTAGGGGCCCTGGGGACCTCAGAACCCTTGCCCCAGTTTGTGGATTCTGCCCTGG
TGTCCCTCACCATCAGATTCACAGGTTTCTTTCTCTGGGCCAGAGGGTTTGGATGCAGCATCTTCTTC
CACTTCCCAAATGCAGCCACGGCCGAGCATCAGCACTGGCCTACTACAGAGAAGCTGAGGCTACAGA
CACTCCCCAGTCTTTAGGTGTATCCACTGCTCAACAGTATGGAGGAATTCCTGGGGGCTCACCTATG
CTAGCTGGGCCTATGGCAAGACGGCACTCTACCCTGCCTCAACTGTGTGCCAGCCATGAGGATGCCCC
TTCCCAGGCCCTGGAAGACCAGGAAGGGAAGAGCAACAACACGTTCTTGGACACCTGAAGACGGAGCGG
CTGAGTCCAGACCTCCTGACGCTGGGGACTGCACTGCCTGCATCGCTCCCTGTCACCGGCAGTGCTTACG
GGGGAGCTGACTTTCCAGTCTTTCTTCTCTCCCACTGGGAGCCCTCTCAGCTCAGCAGCCTATTCTTC
CCCCAAGTTTCATGGAAGCCTGCCATTGGCCCCCTGTGAGGCCAGAGAGTGTGTGAAGTGTGGAGCAACG
GCTACTCCACTGTGGCGGAGGGACAGGACAGGTCACTACCTGTGCAATGCCTGTGGCTTGTATCACAAGA
TGAATGGTCAGAACCGCCTCTCATCCGGCCCAAGAAGCGAATGATTGTCAGCAAACGGGCAGGCACCCA
ATGCACTAACTGTCAAACGACCACTACAACACTCTGGCGGAGGAATGCCAGCGGAGATCCGGTATGCAAT
GCCTGCGGCCTCTATTTCAAGCTCCATCAGGTGAACCGCCCACTGACCATGAGGAAGATGGAATCCAGA
CGAGGAACCGCAAGGCATCTGGCAAGGGAAAAAGAGCGGGGTCGAATCTGGCTGGAGCGGGAGCGGC
TGAAGGACCAGCTGGTGGCTTATGGTGGTAGCTGGTAGCAGCAGTAGTGGGAATTGTGGGGAGGTGGCC
TCAGGCTTGGCACTGGGCACTGCAGGACTGCCACCTCTATCAGGGCCTAGGACCTGTGGTACTGTGAG
GGCCTGTGAGCCATCTTATGCCTTTTCTGGACCTCTGCTGGGATCGCCTACAACCTCTTCCCCACCG
TCCTGCACCTACCACCAGCAGCACCAGCGTGATCGCCCCACTCAGTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226904 representing NM_008089
Red=Cloning site Green=Tags(s)

MDFPGLGALGTSEPLPQFVDSALVSSPSDSTGFFSSGPEGLDAASSSTSPNAATAAASALAYYREAEAYR
HSPVFQVYPLLNSMEGIPGGSPYASWAYGKTALYPASTVCPSHEDAPSQALEDQEGKSNNTFLDTLKTER
LSPDLLTLGTALPASLPVTGSAYGGADFPSPFFSPTGSPLSSAAYSSPKFHGSLPLAPCEARECVNCGAT
ATPLWRRDRTGHYLCNACGLYHKMNGQNRPLIRPKKRMIVSKRAGTQCTNCQTTTTLWRRNASGDPVCN
ACGLYFKLHQVNRPLTMRKDGIQTRNRKASGKGGKKRGSNLAGAGAAEGPAGGFMVVAGSSSSGNCGEVA
SGLALGTAGTAHLYQGLGPVVLGSPVSHLMPFPGPLLGSPTTSFPTGPAPTTSSTSVIAPLSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9032_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_008089

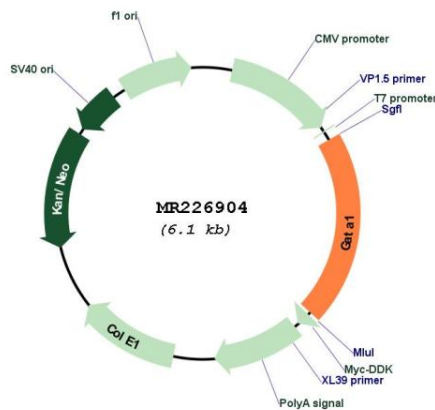
ORF Size: 1242 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_008089.2</u> , <u>NP_032115.1</u>
RefSeq Size:	1902 bp
RefSeq ORF:	1242 bp
Locus ID:	14460
UniProt ID:	<u>P17679</u>
Cytogenetics:	X 3.59 cM
MW:	42.7 kDa
Gene Summary:	Transcriptional activator or repressor which probably serves as a general switch factor for erythroid development. It binds to DNA sites with the consensus sequence 5'-[AT]GATA[AG]-3' within regulatory regions of globin genes and of other genes expressed in erythroid cells. Activates the transcription of genes involved in erythroid differentiation of K562 erythroleukemia cells, including HBB, HBG1/2, ALAS2 and HMBS (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226904