

## Product datasheet for **RC227514**

### **GATA2 (NM\_001145662) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GATA2 (NM_001145662) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GATA2
Synonyms:	DCML; IMD21; MONOMAC; NFE1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC227514 representing NM\_001145662  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTGGCGCCGAGCAGCCGCGCTGGATGGCGCACCCGGCCGTGCTGAATGCGCAGCACCCCGACT  
 CACACCACCCGGCCTGGCGCACAACTACATGGAACCCGCGCAGCTGCTGCCTCCAGACGAGGTGGACGT  
 CTTCTTCAATCACCTCGACTCGCAGGGCAACCCCTACTATGCCAACCCCGCTCACGCGGGGCGCGCTC  
 TCCTACAGCCCCGCGCACGCCGCTGACCGGAGGCCAGATGTGCCGCCACACTTGTTCACAGCCCGG  
 GTTTGCCCTGGCTGGACGGGGGAAAGCAGCCCTCTGCGCGTGGCGCCACCACCACAACCCCTGGAC  
 CGTGAGCCCTTCTCAAGACGCCACTGCACCCCTCAGCTGTGGAGGCCCTGGAGGCCACTCTCTGTG  
 TACCCAGGGGCTGGGGTGGGAGCGGGGAGGCAGCGGGAGCTCAGTGGCCTCCCTACCCCTACAGCAG  
 CCCACTCTGGCTCCACCTTTTCGGCTTCCACCCAGCCACCCAAAGAAGTGTCTCTGACCCTAGCAC  
 CACGGGGCTGCGTCTCCAGCCTCATCTCCGCGGGGGTGTGTCAGCCGAGGAGAGGACAAGGACGGC  
 GTCAAGTACCAGGTGTCCTGACGGAGAGCATGAAGATGGAAAGTGGCAGTCCCTGCGCCAGGCCCTAG  
 CTAATATGGGCACCCAGCCTGCTACACACCACCCATCCCCACCTACCCCTCCTATGTGCCGGCGGCTGC  
 CCACGACTACAGCAGCGGACTCTTCCACCCCGGAGGCTTCTGGGGGGACCGGCCCTCCAGCTTACCCCT  
 AAGCAGCGCAGCAAGGCTCGTTCCTGTTTCAAGGCCGGGAGTGTGTCAACTGTGGGGCCACAGCCACCC  
 CTCTCTGGCGGGGACGGCACCAGCCACTACCTGTGCAATGCCTGTGGCCTCTACCACAAGATGAATGG  
 GCAGAACCAGCACTCATCAAGCCCAAGCGAAGACTGACGACAACCACCTTATGGCGCCGAAACGCC  
 AACGGGGACCTGTCTGCAACGCCTGTGGCCTCTACTACAAGCTGCACAATGTTAACAGGCCACTGACCA  
 TGAAGAAGGAAGGATCCAGACTCGGAACCGGAAGATGTCAACAAGTCCAAGAAGAGCAAGAAGGGGC  
 GGAGTGCTTCGAGGAGCTGTCAAAGTGATGCAGGAGAAGTCAATCCCTTCAGTGCAGTGCCTGGCT  
 GGACACATGGCACCTGTGGGCCCTCCCGCCCTTACGCACTCCGGACACATCTGCCACTCCGACGC  
 CCATCCACCCCTCTCCAGCCTCTCTTCCGGCCACCCCAACCCGTCAGCATGGTGACCGCCATGGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC227514 representing NM\_001145662  
 Red=Cloning site Green=Tags(s)

MEVAPEQPRWMAHPAVLNAQHPDSSHPLAHNYMEPAQLLPDEVDVFFNHLDSQGNPYANPAHARARV  
 SYSPAHLR TGGQMC RPHLLHSPGLPWL DGGKAAL SAAAAHHNPWTVSPFSKTP LHP SAAGPGGPLSV  
 YPGAGGSGGGSSVASLTPTAAHSGSHLFGFPPTPPKEVSPDPSTTGAASPASSAGGSAARGEDKDG  
 VKYQVSLTESMKMESGSPLRPLATMGTQPATHHPIPTYPSYVPAAAHDYSSGLFHPGGFLGGPASSFTP  
 KQRSKARSCSEGRECVNCGATATPLWRRDGTGHYLCNACGLYHKMNGQNRPLIKPKRRLTTTTLWRRNA  
 NGDPVCNACGLYYKLHNVRPLTMKKEGIQTRNRKMSNKS KSKKGAECFEELSKCMQEKSPPSAAALA  
 GHMAPVGHLPFFSHSGHILPTPTPIHPSSSL SFGHPHPSSMVTAMG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**ACCN:** NM\_001145662

**ORF Size:** 1398 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\\_001145662.1](#), [NP\\_001139134.1](#)
**RefSeq ORF:** 1401 bp

**Locus ID:** 2624

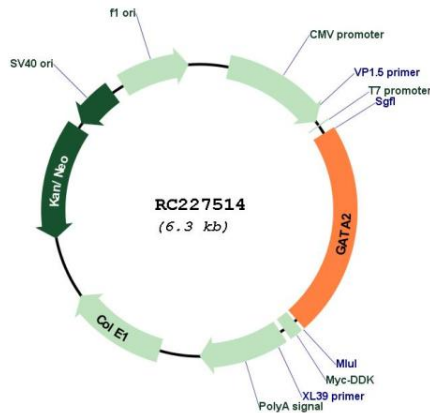
**UniProt ID:** [P23769](#)
**Cytogenetics:** 3q21.3

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

**MW:** 48.9 kDa

**Gene Summary:** This gene encodes a member of the GATA family of zinc-finger transcription factors that are named for the consensus nucleotide sequence they bind in the promoter regions of target genes. The encoded protein plays an essential role in regulating transcription of genes involved in the development and proliferation of hematopoietic and endocrine cell lineages. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Mar 2009]

**Product images:**



Circular map for RC227514