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Product datasheet for SC125368

GATA2 (NM_032638) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GATA2 (NM_032638) Human Untagged Clone
Tag:	Tag Free
Symbol:	GATA2
Synonyms:	DCML; IMD21; MONOMAC; NFE1B
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC125368 sequence for NM_032638 edited (data generated by NextGen Sequencing)

ATGGAGGTGGCGCCGGAGCAGCCGCGCTGGATGGCGCACCCGGCCGTGCTGAATGCGCAG
CACCCCGACTCACACCACCCGGGCCTGGCGCACAACTACATGGAACCCGCGCAGCTGCTG
CCTCCAGACGAGGTGGACGTCTTCTTCAATCACCTCGACTCGCAGGGCAACCCCTACTAT
GCCAACCCCGCTCACGCGCGGGCGCGCGTCTCCTACAGCCCCGCGCACGCCCGCCTGACC
GGAGGCCAGATGTGCCGCCCACACTTGTTGCACAGCCCGGGTTTGCCCTGGCTGGACGGG
GGCAAAGCAGCCCTCTCTGCCGCTGCGGCCCACCACCACAACCCCTGGACCGTGAGCCCC
TTCTCCAAGACGCCACTGCACCCCTCAGCTGCTGGAGGCCCTGGAGGCCCACTCTCTGTG
TACCCAGGGGCTGGGGGTGGGAGCGGGGGAGGCAGCGGGAGCTCAGTGGCCTCCCTCACC
CCTACAGCAACCCACTCTGGCTCCCACCTTTTCGGCTTCCCACCCACGCCACCCAAAGAA
GTGTCTCCTGACCCTAGCACCACGGGGGCTGCGTCTCCAGCCTCATCTTCCGCGGGGGGT
AGTGCAGCCCGAGGAGAGGACAAGGACGGCGTCAAGTACCAGGTGTCACTGACGGAGAGC
ATGAAGATGGAAAGTGGCAGTCCCCTGCGCCCAGGCCTAGCTACTATGGGCACCCAGCCT
GCTACACACCACCCCATCCCCACCTACCCCTCCTATGTGCCGGCGGCTGCCCACGACTAC
AGCAGCGGACTCTTCCACCCCGGAGGCTTCCTGGGGGGACCGGCCTCCAGCTTCACCCCT
AAGCAGCGCAGCAAGGCTCGTTCCTGTTCAGAAGGCCGGGAGTGTGTCAACTGTGGGGCC
ACAGCCACCCCTCTCTGGCGGCGGGACGGCACCGGCCACTACCTGTGCAATGCCTGTGGC
CTCTACCACAAGATGAATGGGCAGAACCGACCACTCATCAAGCCCAAGCGAAGACTGTCG
GCCGCCAGAAGAGCCGGCACCTGTTGTGCAAATTGTCAGACGACAACCACCACCTTATGG
CGCCGAAACGCCAACGGGGACCCTGTCTGCAACGCCTGTGGCCTCTACTACAAGCTGCAC
AATGTTAACAGGCCACTGACCATGAAGAAGGAAGGGATCCAGACTCGGAACCGGAAGATG
TCCAACAAGTCCAAGAAGAGCAAGAAAGGGGCGGAGTGCTTCGAGGAGCTGTCAAAGTGC
ATGCAGGAGAAGTCATCCCCCTTCAGTGCAGCTGCCCTGGCTGGACACATGGCACCTGTG
GGCCACCTCCCGCCCTTCAGCCACTCCGGACACATCCTGCCCACTCCGACGCCCATCCAC
CCCTCCTCCAGCCTCTCCTTCGGCCACCCCCACCCGTCCAGCATGGTGACCGCCATGGGC
TAG

Clone variation with respect to NM_032638.4
15 c=>g;490 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032638 unedited
CCCCCCTATATCCCCCGCCCGTTGACGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCT
ATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAG
CGGCCGCGAATTCGGCACGAGGGGCAGCTGGCGCCAGGGCGGCCGGAGGATGCCGAGGGG
CCGGAGCCGGGCGGGCCCGAGGCCGAGGCGCACTCTACCCCCAGCTCCTACCCTGTAAGC
CCCGCCAGCCTCCGGACGTGCTGTCCCTGGGCCCGTCGCCCTCGGGGCTCCCGCCGGAAC
TCCTTCACTCTCAGAGGCCGAGTCCCTCCCCTCCCCACGGCTGCGTGTGGCCGTTGCCGT
CTGCACCCAGACCCTGAGCCGCCGCCGCCGGCCATGGAGGTGGCGCCGGAGCAGCCGCGC
TGGATGGCGCACCCGGCCGTGCTGAATGCGCAGCACCCCGACTCACACCACCCGGGCCTG
GCGCACAACTACATGGAACCCGCGCAGCTGCTGCCTCCAGACGAGGTGGACGTCTTCTTC
AATCACCTCGACTCGCAGGGCAACCCCTACTATGCCAACCCCGCTCACGCGCGGGCGCGC
GTCTCCTACAGCCCCGCGCACGCCCGCCTGACCGGAGGCCAGATGTGCCGCCCACACTTG
TTGCACAGCCCGGGTTTGCCCTGGCTGAACGGNGGCAAAGCAGCCCTCTCTGCCGCTGCG
GCCCACCACCACAACCCCTGGACCGTGAGCCCCTTCTCCAAGACGCCACTGCACCCCTCA
GCTGCTGGAGGCCCTGGAGGCCCACTCTCTGTGTACTCAGGGCTGGGGGGTGGGAGCGGN
GGAGGCACCGGGAGCTCAGTGGCCTCCCTCACCTTAC

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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_032638 unedited
CATGGAATGGCACTTCCAGGGCCAGNAAAGCACTGGGGNAGGGTCACAGGATGCCACCCG
GGATCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTT
TTTTTTTTTTTCACAAAAAGTATTTTATTATTCTTAACAGTACTCACTTTAAAGGAATAA
GAGGATAGCATACATTTTTTACAGACAATATATAAATGTTGTACATAATTAACAATAACT
TAGTTCACTAATCCAAAATAAAACAAGCCAAATAAAACATAAAAACAGAAAATACTGCCG
ATTCTTTTTCTTATGCGGACACTAGTACAAAATAAGTTACTTCTGGCCGTGGTGCTCCCT
GCAGCGACTGCCCGCCCATATTGCACTTGGTCACTACATCAGCACAATCCTCCTCCTGGG
CCAGGGGCCCCTCACAGGCCACCACACCCCGCCGTCACCGCATACAGAATCTAAGCTCGG
GACACGTTTATATACAGCTGTACCTTGGGAAGGATCCAGACAGCCACAGTAAAGCTGGAC
CTGAGACCCCAGCAGGGACACAGCCTCTCCCTGGGTCCTGGTCCTGACCTGCCCCCAACT
CCTGCCTTCACCCCCTGGCAGGCCAGCAAATGCCAACCAGCCCCCAGAAACCAGGGCAGC
AAAGGCCCCTCCCCACCCCCAGCTTTCATACTAGGGCTGTGGGATCCCAGCTCTTTTCCA
AAAAGATTTGCAAGCTCNCACCTGTGTGTAGGTTTTATTCCTTTCATAGCAGGGCTCCCT
GTGCTACGTACATCAACTGGACCCAAAAGAGTTAAAAATAAACATTTACTCATCNCGAGT
AAGCCCTAGCATTTTTTTAAAATTTTCTTTTGCCCAAAATAGAGCCAAGGGTTGAAGGTT
AACAAAAAAGATGTTTTCAGGGTCCACCGAAAA
```

Restriction Sites: NotI-NotI

ACCN: NM_032638

Insert Size: 1443 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_032638.3, NP_116027.2

RefSeq Size: 3383 bp

RefSeq ORF: 1443 bp

Locus ID: 2624

UniProt ID: P23769

Cytogenetics: 3q21.3

Domains: GATA

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

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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] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (1).

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