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Product datasheet for SC124037

GATA4 (NM_002052) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GATA4 (NM_002052) Human Untagged Clone
Tag:	Tag Free
Symbol:	GATA4
Synonyms:	ASD2; TACHD; TOF; VSD1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC124037 sequence for NM_002052 edited (data generated by NextGen Sequencing)

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ATGTATCAGAGCTTGGCCATGGCCGCCAACCACGGGCCGCCCCCCGGTGCCTACGAGGCGGGCGGCCCCG
GCGCCTTCATGCACGGCGCGGGCGCCGCGTCCTCGCCAGTCTACGTGCCCACACCGCGGGTGCCCTCCTC
CGTGCTGGGCCTGTCCTACCTCCAGGGCGGAGGCGCGGGCTCTGCGTCCGGAGGCGCCTCGGGCGGCAGC
TCCGGTGGGGCCGCGTCTGGTGCGGGGCCCGGGACCCAGCAGGGCAGCCCGGGATGGAGCCAGGCGGGAG
CCGACGGAGCCGCTTACACCCCGCCGCCGGTGTCGCCGCGCTTCTCCTTCCCGGGGACCACCGGGTCCCT
GGCGGCCGCCGCCGCCGCTGCCGCGGCCCGGGAAGCTGCGGCCTACAGCAGTGGCGGCGGAGCGGCGGGT
GCGGGCCTGGCGGGCCGCGAGCAGTACGGGCGCGCCGGCTTCGCGGGCTCCTACTCCAGCCCCTACCCGG
CTTACATGGCCGACGTGGGCGCGTCCTGGGCCGCAGCCGCCGCCGCCTCCGCCGGCCCCTTCGACAGCCC
GGTCCTGCACAGCCTGCCCGGCCGGGCCAACCCGGCCGCCCGACACCCCAATCTCGATATGTTTGACGAC
TTCTCAGAAGGCAGAGAGTGTGTCAACTGTGGGGCTATGTCCACCCCGCTCTGGAGGCGAGATGGGACGG
GTCACTATCTGTGCAACGCCTGCGGCCTCTACCACAAGATGAACGGCATCAACCGGCCGCTCATCAAGCC
TCAGCGCCGGCTGTCCGCCTCCCGCCGAGTGGGCCTCTCCTGTGCCAACTGCCAGACCACCACCACCACG
CTGTGGCGCCGCAATGCGGAGGGCGAGCCTGTGTGCAATGCCTGCGGCCTCTACATGAAGCTCCACGGGG
TCCCCAGGCCTCTTGCAATGCGGAAAGAGGGGATCCAAACCAGAAAACGGAAGCCCAAGAACCTGAATAA
ATCTAAGACACCAGCAGCTCCTTCAGGCAGTGAGAGCCTTCCTCCCGCCAGCGGTGCTTCCAGCAACTCC
AGCAACGCCACCACCAGCAGCAGCGAGGAGATGCGTCCCATCAAGACGGAGCCTGGTCTGTCATCTCACT
ACGGGCACAGCAGCTCCGTGTCCCAGACGTTCTCAGTCAGTGCGATGTCTGGCCATGGGCCCTCCATCCA
CCCTGTCCTCTCGGCCCTGAAGCTCTCCCCACAAGGCTATGCGTCTCCCGTCAGCCAGTCTCCACAGACC
AGCTCCAAGCAGGACTCTTGGAACAGCCTGGTCTTGGCCGACAGTCACGGGGACATAATCACTGCGTAA

Clone variation with respect to NM_002052.3
353 c=>n;354 g=>n;355 g=>n;356 c=>n;357 c=>n;358 g=>n;359 c=>n;360 c=>n;361 g=>n;1107 c=>t
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View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002052 unedited
GGTCAGATTTGTATACGACTCATATAGGCGGCCGCGAATTCGCACGAGCGCAGGGCCGCG
AGAGGCTTCGTCGCCGCTGCAGCTCCGGGGGCTCCCAGGGGAGCGTGCGCGGAACCTCCA
GGCCCAGCAGGACCCCGGCTGCGGCGAGGAGGAAGGAGCCAGCCTAGCAGCTTCTGCGCC
TGTGGCCGCGGGTGTCCTGGAGGCCTCTCGGTGTGACGAGTGGGGGACCCGAAGGCTCGT
GCGCCACCTCCAGGCCTGGACGCTGCCCTCCGTCTTCTGCCCCCAATAGGTGCGCCGGAC
CTTCAGGCCCTGGGGTGAATTCAGCTGCTCCTACATCAGCTTCCGGAACCACCAAAAATT
CAAATTGGGATTTTCCGGAGTAAACAAGAGCCTAGAGCCCTTTGCTCAATGCTGGATTTA
ATACGTATATATTTTTAAGCGAGTTGGTTTTTTCCCCTTTGATTTTTGATCTTCGCGACA
GTTCCTCCCACGCATATTATCGTTGTTGCCGTCGTTTTCTCTCCCCGCGTGGCTCCTTGA
CCTGCGAGGGAGAGAGAGGACACCGAAGCCGGGAGCTCGCAGGGACCATGTATCAGAGCT
TGGCCATGGCCGCCAACCACGGGCCGCCCCCCGGTGCCTACGAGGCGGGCGGCCCCGGCG
CCTTCATGCACGGCGCGGGCGCCGCGTCCTCGCCAGTCTACGTGCCCACACCGCGGGGTG
CCCTCCTCCGTGCTGGGCCTGTCCTACCTCCAGGGCGGAGGCGCGGGCTCTGCGTCCGGG
AGCGCCCTCGGCGGCAGCTCCGGGTGGGGCCCGGTCTGTTGCCGGGCCCGGNACCCCACA
GGGCAGCCCGGGGAGGACCCAGCGCGGGGCCAACGAGCCGCTTACCCCCCGCCGCCGTGT
CTCCCGCCCTTTTCCTCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002052 unedited
GCATGGCAACTTCCAGGCCAGGAGAGGCACTGGGGAGGGGTCACAGGGATGCCACCCGGG
ATCTGTTCAGGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTGT
TTTTTAAAGAGGAATACAGATAAATTTATTAGTTAAATACTGATTTTCCAGCCATTTCAC
CTTAAGACAATGTTAACAGGTTTGTGGGTTAGGGAGGGTATACGAGGGGGCCTTTGGAAG
AAAACAATGTAAATGATGATTAAAACAGAATCTTGGTTCAAAGGTATTCTCTGCTACAGC
CAGTAGGATTTTGGAGTGAGGGGTCTGGGCGTGTGGGGAGGCGTAGTAATGCCACAGTCA
GCTACAGCTCTGCTGAGAAAGAGGAAGGAGTCTCCATGAGCTCCAGCATCAGGGGCAGAA
ACAGCAATGTGCAGAGGAGAACGCGGCAGATCCCGGAGCAGCTCAGAGTCGGAGGCTCCC
TCCAGGCCCCCCTGCCGTGTCTTAGCAGTCGTCTTCTTTCCAGGAATTCTGTTGTGTTGT
GTTTGTTTGCTTCGAATTCGTGTTGCAGAATCTCTGGCTTTTTGCCTCCTGGACAAAAGA
CTTCTGCCGGGGCGAAGCTGCAAGTCCTTGAGGACTCTGGCTTGCATCTTGACCAAGGGT
AGGAGGACCAACAGACCACAGGTGGGCCACCTTGGGACACTCTGCCCCTGACAGGAATTT
GTCACTTACCTCTCCCAGAAGACCTCAGGCTGGCTGATGCTGCCAATGCTTGACACAAAC
GTTTGTTTTCTAAACCTTTATTTGACCGTGACAAGGCTCATGACTCAGGGGTCGTTGTAA
TCCAACCTTGTTCAGGAAAAATTCAACG

Restriction Sites: Please inquire

ACCN: NM_002052

Insert Size: 3600 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_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] Transcript Variant: This variant (2) differs in the 5' UTR and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.