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Product datasheet for SC108486

GATA3 (NM_002051) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GATA3 (NM_002051) Human Untagged Clone
Tag:	Tag Free
Symbol:	GATA3
Synonyms:	HDR; HDRS
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene sequence for NM_002051 edited
GGCGCCGTCTTGATACTTTCAGAAAGAATGCATTCCCTGTAAAAAAAAAAAAAAAAAAATA
CTGAGAGAGGGAGAGAGAGAGAGAAGAAGAGAGAGAGACGGAGGGAGAGCGAGACAGAGC
GAGCAACGCAATCTGACCGAGCAGGTCGTACGCCGCCGCCTCCTCCTCCTCTCTGCTCTT
CGCTACCCAGGTGACCCGAGGAGGGACTCCGCCTCCGAGCGGCTGAGGACCCCGGTGCAG
AGGAGCCTGGCTCGCAGAATTGCAGAGTCGTCGCCCCTTTTTACAACCTGGTCCCGTTTT
ATTCTGCCATACCCAGTTTTTGGATTTTTGTCTTCCCCTTCTTCTCTTTGCTAAACGACC
CCTCCAAGATAATTTTTAAAAAACCTTCTCCTTTGCTCACCTTTGCTTCCCAGCCTTCCC
ATCCCCCCACCGAAAGCAAATCATTCAACGACCCCCGACCCTCCGACGGCAGGAGCCCCC
CGACCTCCCAGGCGGACCGCCCTCCCTCCCCGCGCGCGGGTTCCGGGCCCGGCGAGAGGG
CGCGAGCACAGCCGAGGCCATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCA
CCACCCCGCCGTGCTCAACGGGCAGCACCCGGACACGCACCACCCGGGCCTCAGCCACTC
CTACATGGACGCGGCGCAGTACCCGCTGCCGGAGGAGGTGGATGTGCTTTTTAACATCGA
CGGTCAAGGCAACCACGTCCCGCCCTACTACGGAAACTCGGTCAGGGCCACGGTGCAGAG
GTACCCTCCGACCCACCACGGGAGCCAGGTGTGCCGCCCGCCTCTGCTTCATGGATCCCT
ACCCTGGCTGGACGGCGGCAAAGCCCTGGGCAGCCACCACACCGCCTCCCCCTGGAATCT
CAGCCCCTTCTCCAAGACGTCCATCCACCACGGCTCCCCGGGGCCCCTCTCCGTCTACCC
CCCGGCCTCGTCCTCCTCCTTGTCGGGGGGCCACGCCAGCCCGCACCTCTTCACCTTCCC
GCCCACCCCGCCGAAGGACGTCTCCCCGGACCCATCGCTGTCCACCCCAGGCTCGGCCGG
CTCGGCCCGGCAGGACGAGAAAGAGTGCCTCAAGTACCAGGTGCCCCTGCCCGACAGCAT
GAAGCTGGAGTCGTCCCACTCCCGTGGCAGCATGACCGCCCTGGGTGGAGCCTCCTCGTC
GACCCACCACCCCATCACCACCTACCCGCCCTACGTGCCCGAGTACAGCTCCGGACTCTT
CCCCCCCAGCAGCCTGCTGGGCGGCTCCCCCACCGGCTTCGGATGCAAGTCCAGGCCCAA
GGCCCGGTCCAGCACAGGCAGGGAGTGTGTGAACTGTGGGGCAACCTCGACCCCACTGTG
GCGGCGAGATGGCACGGGACACTACCTGTGCAACGCCTGCGGGCTCTATCACAAAATGAA
CGGACAGAACCGGCCCCTCATTAAGCCCAAGCGAAGGCTGTCTGCAGCCAGGAGAGCAGG
GACGTCCTGTGCGAACTGTCAGACCACCACAACCACACTCTGGAGGAGGAATGCCAATGG
GGACCCTGTCTGCAATGCCTGTGGGCTCTACTACAAGCTTCACAATATTAACAGACCCCT
GACTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCAAAAA
GTGCAAAAAAGTGCATGACTCACTGGAGGACTTCCCCAAGAACAGCTCGTTTAACCCGGC
CGCCCTCTCCAGACACATGTCCTCCCTGAGCCACATCTCGCCCTTCAGCCACTCCAGCCA
CATGCTGACCACGCCCACGCCGATGCACCCGCCATCCAGCCTGTCCTTTGGACCACACCA
CCCCTCCAGCATGGTCACCGCCATGGGTTAGAGCCCTGCTCGATGCTCACAGGGCCCCCA
GCGAGAGTCCCTGCAGTCCCTTTCGACTTGCATTTTTGCAGGAGCAGTATCATGAAGCCT
AAACGCGATGGATATATGTTTTTGAAGGCAGAAAGCAAAATTATGTTTGCCACTTTGCAA
AGGAGCTCACTGTGGTGTCTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATAAG
CCATTCTGACTCATATCCCCTATTTAACAGGGTCTCTAGTGCTGTGAAAAAAAAAATGCT
GAACATTGCATATAACTTATATTGTAAGAAATACTGTACAATGACTTTATTGCATCTGGG
TAGCTGTAAGGCATGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTGGAA
ATTAAGAAGAAACTAGGTCTGATATTCAAATGGACAAACTGCCAGTTTTGTTTCCTTTCA
CTGGCCACAGTTGTTTGATGCATTAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002051 unedited
CAGTATTTTGTAATACGACTCACTATTAGGGCGGCCGCGAATTCGCACGAGGTGGCGCCG
TCTTGATACTTTCAGAAAGAATGCATTCCCTGTAAAAAAAAAAAAAAAAAAATACTGCAGA
GAGGGAGNCAGAGAGAGAGAAGAAGAGAGAGAGACGGAGGGAGAGCGAGACAGAGCGAGC
AACGCAATCTGACCGAGCAGGTCGTACGCCGCCGCCTCCTCCTCCTCTCTGCTCTTCGCT
ACCCAGGTGACCCGAGGAGGGACTCCGCCTCCGAGCGGCTGAGGACCCCGGTGCAGAGGA
GCCTGGCTCGCAGAATTGCAGAGTCGTCGCCCCTTTTTACAACCTGGTCCCGTTTTATTC
TGCCATACCCAGTTTTTGGATTTTTGTCTTCCCCTTCTTCTCTTTGCTAAACGACCCCTC
CAAGATAATTTTTAAAAAACCTTCTCCTTTGCTCACCTTTGCTTCCCAGCCTTCCCATCC
CCCCACCGAAAGCAAATCATTCAACGACCCCCGACCCTTCGACGGCAGGAGCCCCCCGAC
CTCCCAGGCGGACCGCCCTCCCTCCCCGCGCGCGGGTTCCGGGCCCGGCGAGAGGGCGCG
AGCCCAGCCGACGCCATGGAGGTGACGGTGGACCACCCGGGCTGGGTGAGCCACCACTAC
CCTGCCGTGTTACGGGGCATCACCCGGACACGCACCACCCGGGCCTCAAGCCCTTCTACC
TGGGCGCGGGGCAATACCCGGTGCCGGAGGAAGGGGATGATCCTTTTTACCTCGAAGGGT
AAGGGAACCACGTCCGGCCTTACTACGAAACTCGGTCAGGGCCCCGGGGCTAAGGTACCT
TTCGACCCACCCCGGGAGACAGGTGGCGCGGCCCCCTCTTGCTTTTGGATCCCCTCCCTT
GGTGGGACGGGGGATAACCTTGGGAGTCCACACCTTGGCTCCCCGGGAAAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002051 unedited
NGGCCTTTTTTCAGCTCACCACTGTGGCCGTGAAAGAACAAACTGGCAGTTTGTCCATTT
GAATATCAGACCTAGTTTCTTCTTATTTCCACACTATTTCTCCCATATTCCTTAAACTTC
TTGGCATCCTTCATGCCTTACAGCTACCCAGATGCAATAAAGTCATTGTACAGTATTTCT
TACAATATAAGTTATATGCAATGTTCAGCATTTTTTTTTTTCACAGCACTAGAGACCCTG
TTAAATAGGGGATATGAGTCAGAATGGCTTATTCACAGATGGGGTCCAGATTCAGTGGTT
GGAACACAGACACCACAGTGAGCTCCTTTGCAAAGTGGCAAACATAATTTTGCTTTCTGC
CTTCAAAAACATATATCCATCGCGTTTAGGCTTCATGATACTGCTCCTGCAAAAATGCAA
GTCGAAAGGGACTGCAGGGACTCTCGCTGGGGGCCCTGTGAGCATCGAGCAGGGCTCTAA
CCCATGGCGGTGACCATGCTGGAGGGGTGGTGTGGTCCAAAGGACAGGCTGGATGGCGGG
TGCATCGGCGTGGGCGTGGTCAGCATGTGGCTGGAGTGGCTGAAGGGCGAGATGTGGCTC
ANGGAGGACATGTGTCTGGAGAGGGCGGCCGGGTTAAACGAGCTGTTCTTGGGGAAGTCC
TCCAGTGAGTCATGCACTTTTTTGCACTTTTTGGATTTGCTAGACATTNTTCGGTTNCTG
GTCTGGATGCCTTCCTTCTTATAGTCAGGGGTCTGTTAATATTGTGAAGCTTGTAGTAGA
GCCCACAGGCATTGCAGACAGGGTCCCCATTGGCATTCCTCCTTCANAGTGTGTTGTGGT
GGTCTGACAGTTTCCACAGGACGTNCCTGCTCTNCTGGCTGCAGACAGCCTTCGCTTGGG
CTTAA

Restriction Sites: NotI-NotI

ACCN: NM_002051

Insert Size: 2400 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
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_002051.2, NP_002042.1
RefSeq Size:	3067 bp
RefSeq ORF:	1332 bp
Locus ID:	2625
UniProt ID:	P23771
Cytogenetics:	10p14
Domains:	GATA
Protein Families:	Adult stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
Gene Summary:	This gene encodes a protein which belongs to the GATA family of transcription factors. The protein contains two GATA-type zinc fingers and is an important regulator of T-cell development and plays an important role in endothelial cell biology. Defects in this gene are the cause of hypoparathyroidism with sensorineural deafness and renal dysplasia. [provided by RefSeq, Nov 2009] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the mid-coding region, compared to variant 1, resulting in an isoform (2) that is 1 aa shorter than isoform 1.