

## Product datasheet for **SC300437**

### **GATA3 (NM\_001002295) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GATA3 (NM_001002295) Human Untagged Clone
Tag:	Tag Free
Symbol:	GATA3
Synonyms:	HDR; HDRS
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_001002295 edited
CGTCTTGATACTTTCAGAAAGAATGCATTCCCTGTAAAAAAAAAAAAAAAAAACTGAG
AGAGGGAGAGAGAGAGAAGAAGAGAGAGACGGAGGGAGAGCGAGACAGAGCGAGCA
ACGCAATCTGACCGAGCAGGTCTACGCCGCCCTCCTCCTCTCTGCTCTTCGCTA
CCCAGGTGACCCGAGGAGGACTCCGCCCTCCGAGCGGCTGAGGACCCCGGTGCAGAGG
CCTGGCTCGCAGAATTGCAGAGTCGTGCCCCCTTTTACAACCTGGTCCCGTTTTATTCT
GCCATACCCAGTTTTGGATTTTTGTCTTCCCCTTCTTCTTTGCTAAACGACCCCTCC
AAGATAATTTTTAAAAAACCTTCTCCTTTGCTCACCTTTGCTTCCAGCCTTCCCATCCC
CCCACCGAAAGCAAATCATTCAACGACCCCGACCTCCGACGGCAGGAGCCCCCGACC
TCCCAGGCGGACCGCCTCCCTCCCGCGCGGGTTCGGGGCCCGGCGAGAGGGCGCGA
GCACAGCCGAGGCCATGGAGGTGACGGCGGACCAGCCGCGCTGGGTGAGCCACCACC
CCGCCGTGCTCAACGGGCAGCACCCGGACAGCACCCCGGCCCTCAGCCACTCTACA
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CTCCGACCCACCAGGGAGCCAGGTGTGCCGCCCGCCTGCTTTCATGGATCCCTACCCT
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CCTTCTCAAGACGTCCATCCACCACGGCTCCCGGGGCCCTCTCCGTCTACCCCCGG
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CCCCGCCGAAGGACGTCTCCCGGACCCATCGCTGTCCACCCAGGCTCGGCCGGCTCGG
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GGTCCAGCACAGAAGGCAGGGAGTGTGTGAACTGTGGGGCAACCTCGACCCCACTGTGGC
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CTATGAAGAAGGAAGGCATCCAGACCAGAAACCGAAAAATGTCTAGCAAATCCAAAAAGT
GCAAAAAAGTGCATGACTCACTGGAGGACTTCCCAAGAACAGCTCGTTTAAACCCGGCCG
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TGCTGACCACGCCACGCGGATGCACCCGCCATCCAGCCTGTCTTTGGACCACACCACC
CCTCCAGCATGGTCACCGCCATGGGTTAGAGCCCTGCTCGATGCTCACAGGGCCCCCAGC
GAGAGTCCCTGCAGTCCCTTTGACTTGCATTTTTGCAGGAGCAGTATCATGAAGCCTAA
ACGCGATGGATATATGTTTTGAAGGCAGAAAGCAAAATATGTTTGCCACTTTGCAAAG
GAGTCACTGTGGTGTCTGTGTTCCAACCACTGAATCTGGACCCCATCTGTGAATAAGCC
ATTCTGACTCATATCCCCTATTTAACAGGGTCTCTAGTGTGTGAAAAAAAAAAATGCTG
AACATTGCATATAACTTATTTGTAAGAAATACTGTACAATGACTTTATTGCATCTGGGT
AGCTGTAAGGCATGAAGGATGCCAAGAAGTTTAAGGAATATGGGAGAAATAGTGTGGAAA
TTAAGAAGAACTAGGTCTGATATTCAAATGGACAAACTGCCAGTTTTGTTTCTTTTCC
TGCCACAGTTGTTTGTGTCATTAAGAAATAAAAAAAAAAAAAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_001002295 unedited</p> <pre>CGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGTCTTGATACTTTCAGAAAAGAT GCATTCCTGTAAAAAAAAAAAAAAAAAACTGGAGAGAGGGGAGAGAGAGAGAGAAGA AGAGAGAGAGACGGAGGGAGAGCGAGACAGAGCGAGCAACGCAATCTGACCGAGCAGGTC GTACGCCGCCCTCCTCCTCTCTGCTCTTCGCTACCCAGGTGACCCGAGGAGGGAC TCCGCCTCCGAGCGGCTGAGGACCCCGGTGCAGAGGAGCCTGGCTCGAGAATTGCAGAG TCGTCCGCCCTTTTACAACCTGGTCCCGTTTTATTCTGCCATACCCAGTTTTTTGGATTT TTGTCTTCCCTTCTTCTTTGCTAAACGACCCCTCCAAGATAATTTTTAAAAACCTT CTCCTTTGCTCACCTTGTCTCCAGCCTTCCCATCCCCCACCAGAAAGCAAATCATTCA ACGACCCCGACCTCCGACGGCAGGAGCCCCGACCTCCAGGGCGACCGCCCTCCCT CCCCGCGCGGGTTCCGGGCCCGGCGAGAGGGCGCGAGCACAGCCGAGGCCATGGAGGT GACGGCGGACCANCCGCGCTGGGTGAGCCACCACCACCCGCGTGTCAACGGGACGA CCCGGACACGCACCACCGGGCCTCAGCCACTCTACATGGACGCGGCGCANTACCCGCT GCCGGAGGAGGTGGATGTGCTTTTTAACATCGACGGTCAAGGGCACCCACGTNCCGCCCTT ACTACGGAACCTCGGTGAGGGCCAGGTGCANAGGTACCCTCCGACCCACACGGGAGCCAN GTGTGCCGCCCGCTCTGCTCATGGATCCCTACCTGGCTGGACNGCNGCAAGCCCTGGG GCAGCACACCCNCTCCCTGGATNTNANCCTNTNCAAGAGTCATCACACGGNTCCGGG CCCTTTCGTTACCCGNCCTGCTCTTTTGTGGGCAGCACGNTTTTTTTTTTTTC</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' genomic read for NM_001002295 unedited</p> <pre>TATGTACGCGCCGCATCTATAGTCGGTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTCTTTTAAATGC ATCAAACAACTGTGGCCAGTGAAAGGAAACAAACTGGCAGTTTGTCCATTTGAATATCA GACCTAGTTTCTTCTAATTTCCACACTATTTCTCCCATATTCCTTAAACTTCTTGGCAT CCTTCATGCCTTACAGCTACCCAGATGCAATAAAGTCATTGTACAGTATTTCTTACAATA TAAGTTATATGCAATGTTGAGCATTTTTTTTTTTTTACAGCACTAGAGACCCTGTTAAATA GGGGATATGAGTCAGAATGGCTTATTCACAGATGGGGTCCAGATTCAGTGGTTGGAACAC AGACACCACAGTGAGTCTCTTTCGAAAGTGCAAAACATAATTTTGTCTTCTGCCTCAA AACATATATCCATCGCGTTTAGGCTTATGATACTGCTCCTGCAAAAATGCAAGTCGAAA GGGACTGCAGGGACTCTCGTGGGGCCCTGTGAGCATCGAGCAGGGCTTAACCCATGG CGGTGACCATGCTGGAGGGGTGGTGTGGTCCAAAGGACAGGCTGGATGGCGGGTGCATCG CGGTGGGCGTGGTCAACATGTGGCTGGAGTGGCTGAAAGGCGATATGTGGCTCAAGGAGG ACATGTGTCTGGAGAGGCCCGCGGTTAAACGAGCTGTTCTGGGGAAGCCTNCAGTGAG TCATGCACTTTTTGCACTTTTAGGATTGCTGAACATTTTCGTTCTGACTGGATGCCTTCC TCTTCAAGTAGGGGGCTGTAATATTGGAACCTGGAGAAAGCCCAAGCCTTTGAAAAGGG CCCATTGGCTTCTCCCAAAGGTGGTGGGGGGGGCGAACATTCCACCAGAAGTCTGCTGT TTCGGGTGAAAACCTTCTTGGGCTATAAAGGGCGGGTGGCCTTCTTGGGATAAACCC CAGGCTCAAGTGTGCCGCCCT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001002295
<b>Insert Size:</b>	2400 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001002295.1</a></u> , <u><a href="#">NP_001002295.1</a></u>
<b>RefSeq Size:</b>	3070 bp
<b>RefSeq ORF:</b>	1335 bp
<b>Locus ID:</b>	2625
<b>UniProt ID:</b>	<u><a href="#">P23771</a></u>
<b>Cytogenetics:</b>	10p14
<b>Protein Families:</b>	Adult stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>