

Product datasheet for **SC116287**

Nkx3.1 (NKX3-1) (NM_006167) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx3.1 (NKX3-1) (NM_006167) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nkx3.1
Synonyms:	BAPX2; NKX3; NKX3.1; NKX3A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116287 sequence for NM_006167 edited (data generated by NextGen Sequencing)

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ATGCTCAGGGTTCCGGAGCCGCGCCCGGGGAGGCGAAAGCGGAGGGGGCCGCGCCGCCG  
ACCCCGTCCAAGCCGCTCACGTCCTTCCATCCAGGACATCCTGCGGGACGCGCGCAG  
CGGCAAGCGCGCCGACGAGCAGCCAGAGACAGCGCGACCCGGAGCCGGAGCCAGAGCCA  
GAGCCAGAGGGAGGACGAGCCGCGCCGGGGCGCAGAACGACCAGCTGAGCACCGGGCCC  
CGCGCCGCGCCGGAGGAGCCGAGACGCTGGCAGAGACCGAGCCAGAAAGGCACTTGGGG  
TCTTATCTGTTGGACTCTGAAAACACTTCAGGCGCCCTTCCAAGGCTTCCCCAAACCCCT  
AAGCAGCCGAGAAGCGCTCCCAGCTGCCTTCTCCCACTCAGGTGATCGAGTTGGAG  
AGGAAGTTCAGCCATCAGAAGTACCTGTCGGCCCTGAACGGGCCACCTGGCCAAGAAC  
CTCAAGCTCACGGAGACCAAGTGAAGATATGGTTCCAGAACAGACGCTATAAGACTAAG  
CGAAAGCAGCTCTCCTCGGAGCTGGGAGACTTGGAGAAGCACTCCTCTTTGCCGGCCCTG  
AAAGAGGAGGCCTTCTCCCGGGCCTCCCTGGTCTCCGTGTATAACAGCTATCCTTACTAC  
CCATACCTGTACTGCGTGGGCAGCTGGAGCCCAGCTTTTTGGTAA
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Clone variation with respect to NM_006167.3



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006167 unedited
 GCCGCGAATTCGGCACCAGCGGGTGCATTACAGGCCAAAGCGGGGCGCCGGGATGCTCAG
 GGTTCGGAGCCGCGGCCCGGGAGGCGAAAGCGGAGGGGGCCGCGCCGACCCCGTC
 CAAGCCGCTCACGTCTTCTCATCCAGGACATCCTGCGGGACGGCGCGCAGCGGCAAGG
 CGGCCGCACGAGCAGCCAGAGACAGCGCACCCGGAGCCGGAGCCAGAGCCAGAGCCAGA
 GGGAGGACGCAGCCGCGCCGGGGCGCAGAACACCAGCTGAGCACCGGGCCCCGCGCCG
 GCCGGAGGAGCCGAGACGCTGGCAGAGACCCAGCCAGAAAGGCACTTGGGGTCTTATCT
 GTTGGACTCTGAAAACACTTCAGGCGCCCTTCCAAGGCTTCCCAAACCCCTAAGCAGCC
 GCAGAAGCGCTCCCGAGCTGCCTTCTCCACACTCAGGTGATCGAGTTGGAGAGGAAGTT
 CAGCCATCAGAAGTACCTGTCGGCCCTGAACGGGCCACCTGGCCAAGAACCTCAAGCT
 CACGGAGACCCAAGTGAAGATATGGGTTCCAGAACAGACGCTATANGACTAAGCGAAAGC
 AGCTCTCCTCGGAGCTGGGAGACTTGGAGAAGCACTCCTCNTTGGCCGCCCTGAAGAGG
 ANGCTTCTCCGGGGCCCTCCTGGGCTTCGTGTATACAGCTATCCTTACTACCCATACCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006167 unedited
 CCTAGGTTGCCCGCGCCGAATCTACATTTTTTTTTTTTTTCTAATAAACACATGGGTAC
 TTTATTTTCAAAAACACTCATATGTTGCTAAAAACACATAGTAAAAATAAAGTTGGTGG
 GGGTGCTGACTAAACTTCAAGTCACAGACTTTTATGTGACAGATTGGAGCAGGGTTTGT
 ATGCATGTAGAGAACCCAACTAATTTATTAACAGGATAGAAACAGGCTGTCTGGGTGA
 AATGGTCTGAGAACCATCCAATTCACCTGTCAGATGCTGATAGACTAGCTCTTCAGATG
 TTTTTCTACCAGTTCAGAGATGGGTTAATGACTAGTTCCAATGGGGAAAAAGCAAGATGG
 ATTCACAAACCAAGTAATTTTAAACAACGACACTTTTTTTTTTTTGAACACAATATACA
 TCACAGTGAATGTGTAATCCTTGCAAATTGCAAGTTGAAAGAATTAATTCAGAGGAGG
 GGAGAGAAAGAGTATTCAGTAGGACTGAGCACTAAATGCTTATTTTAAAGAAATGTAA
 AGAGCAGAAAGCAATTCAGGCTACCCCTGCCTTTTGCCTGCCTAGCACTCCGGCCGGTGC
 CACCCGCCGTGCCATCGAACATTCCCCTGCGCAGCCCCAACTCCTAAACAACGGGGTC
 GAACACCGCACAAATCTCTAATTAACCTTATGCTGGCACTTTTCTCTCCCCCGCAAAC
 CTGCCCAACTTCGTCAACCCACATTGCCCGCCTACTCCCTACACGCACATAATTTTCGG
 GCTCCCCAAACTCCCCTCTACGCTCCTCCTTATCCATGTCTGTCCCCTAATATTC
 TCTCCCGGTTTCGCTTCCCGCGTCCCTGTATCCCCCCCCAAATATCAACCACCGCA
 CCCATCCCCTGCCTCCTCCCCCTCCTTCAAACT

Restriction Sites:

NotI-NotI

ACCN:

NM_006167

Insert Size:

2890 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:	<ol style="list-style-type: none">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:	<u>NM_006167.2</u> , <u>NP_006158.2</u>
RefSeq Size:	3266 bp
RefSeq ORF:	705 bp
Locus ID:	4824
UniProt ID:	<u>Q99801</u>
Cytogenetics:	8p21.2
Domains:	homeobox
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Pathways in cancer, Prostate cancer
Gene Summary:	<p>This gene encodes a homeobox-containing transcription factor. This transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. Aberrant expression of this gene is associated with prostate tumor progression. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jan 2012]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>