

NKX3-1 cDNA

Catalog Number: ATGD0320

PRODUCT INFORMATION

Catalog number

ATGD0320

Product type

cDNA

Species

Human

NCBI Accession No.

NP_006158.2

Alternative Names

Homeobox protein Nkx-3.1, BAPX2, NKX3, NKX3.1, NKX3A, NKX3-1

mRNA Refseq

NM_006167.3

OMIM

602041

Chromosome location

8p21.2

PRODUCT SPECIFICATION

Formulation

Lyophilized

Storage

Store the plasmid at -20C.

cDNA Size

705bp

Preparation before usage

1. Centrifuge at 7000rpm for 1 minute.
 2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
- Each tube contains approximately 10ug of lyophilized plasmid.

Vector description

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector

pATGen (puc19-derived cloning vector)

General Description

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NKX3-1 encodes a homeobox-containing transcription factor. This transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. Aberrant expression of NKX3-1 is associated with prostate tumor progression. Alternate splicing results in multiple transcript variants of NKX3-1.

DATA

Sequence nucleotides

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ATGCTCAGGGTTCCGGAGCCGCGGCCCCGGGGAGGCGAAAGCGGAGGGGGCCGCGCCGCCGACCCCGTCCAAGCCGCTC
ACGTCCTTCCTCATCCAGGACATCCTGCGGGACGGCGCGCAGCGGCAAGGCGGCCGCACGAGCAGCCAGAGACAGCGCG
ACCCGGAGCCGGAGCCAGAGCCAGAGCCAGAGGGAGGACGCAGCCGCGCCGGGGCGCAGAACGACCAGCTGAGCACCG
GGCCCCGCGCCGCGCCGGAGGAGGCCGAGACGCTGGCAGAGACCGAGCCAGAAAGGCACCTTGGGGTCTTATCTGTTGGA
CTCTGAAAACACTTCAGGCGCCCTTCCAAGGCTTCCCCAAACCCCTAAGCAGCCGCGAGAAGCGCTCCCGAGCTGCCTTCTC
CCCACTCAGGTGATCGAGTTGGAGAGGAAGTTCAGCCATCAGAAGTACCTGTGCGGCCCTGAACGGGCCCCACCTGGCCA
AGAACCTCAAGCTCACGGAGACCCAAGTGAAGATATGGTTCCAGAACAGACGCTATAAGACTAAGCGAAAGCAGCTCTCCT
CGGAGCTGGGAGACTTGGAGAAGCACTCCTCTTTGCCGGCCCTGAAAGAGGAGGCCTTCTCCCGGGCCTCCCTGGTCTCC
GTGTATAACAGCTATCCTTACTACCCATACCTGTACTGCGTGGGCAGCTGGAGCCCAGCTTTTTTGTTAA
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Transaction Sequence

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MLRVPEPRPG EAKAEGAAPP TPSKPLTSFL IQDILRDGAQ RQGGRTSSQR QRDPEPEPEPEPEGGRSRAG AQNDQLSTGP
RAAPEEAETL AETEPERHLG SYLLDSENTS GALPRLPQTPKQPQKRSRAA FSHTQVIELE RKFSHQKYL APERAHLAKN
LKLTETQVKI WFQNRRYKTKRKQLSSELGD LEKHSSLPAL KEEAFSRASL VSVYNSYPY PYLYCVGSWS PAFW
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