

Product datasheet for **MR224654**

Nkx3-1 (NM_010921) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx3-1 (NM_010921) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nkx3-1
Synonyms:	bagpipe; Bax; Nkx-3.1; NKX3.1; NKX3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224654 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTAGGGTAGCGGAGCCCCGAGAGCCACGGGTGGAGGCGGGTGGCCGAGTCCTTGGGCAGCGCCAC
CCACGCAGTCCAAGCGGCTCACCTCCTTCCTCATCCAGGACATCCTGCGGGACCGCGGGAGCGGCACGG
GGGACACTCAGGCAATCCGCAGCACTCGCCGGACCCTAGGAGGGACTCCGCTCCAGAGCCCCGACAAAGCA
GGGGTTCGCGGCGTGGCTCCGGAGGACCCACCAAGTATCCGGCATAGCCCCGCGGAGACACCGACTGAAC
CCGAGTCTGATGCACATTTTGGACTTATCTTTGGACTGTGAACATAATCCAGGGGACTTAGCAAGTGC
CCCCAGGTACCAAGCAGCCACAGAAGCGCTCCCGGGCCGCTTCTCTCACACTCAGGTGATTGAGTTG
GAGAGGAAGTTCAGCCATCAGAAGTACCTGTCTGCCCCTGAGAGGGCTCACCTGGCCAAGAACCTCAAAC
TCACCGAAACCAAGTCAAATATGGTTCCAGAACAGACGCTATAAGACCAAGCGAAAGCAGCTGTCCGA
AGACCTGGGAGTCTTGGAGAAGAACTACCATTGTCTTTGCCAGCCCTGAAAGATGACAGCCTGCCAGT
ACCTCCTTGGTCTCCGTGTATACTAGCTATCCCTACTACCCTACCTGTACTGTCTGGGCAGCTGGCATC
CATCTTTCTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224654 protein sequence
Red=Cloning site Green=Tags(s)

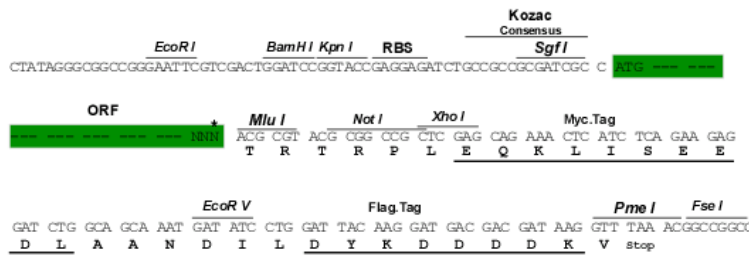
MLRVAEPREPRVEAGGRSPWAAPPTQSKRLTSFLIQDILRDRAERHGGHSGNPQHSPDPRRDSAPEPDKA
 GGRGVAPEDPPSIRHSPAETPTEPESDAHFETYLLDCEHNPGDLASAPQVTKQPQKRSRAAFSHTQVIEL
 ERKFSHQKYL SAPERAHLAKNLKLTETQVKIWFQNRRYKTKRKLQSEDLGVLEKNSPLSLPALKDDSLPS
 TSLVSVYTSYPYYPYLYCLGSWHPSFW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010921

ORF Size: 714 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_010921.3](#), [NP_035051.1](#)

RefSeq Size: 3137 bp

RefSeq ORF: 714 bp

Locus ID: 18095

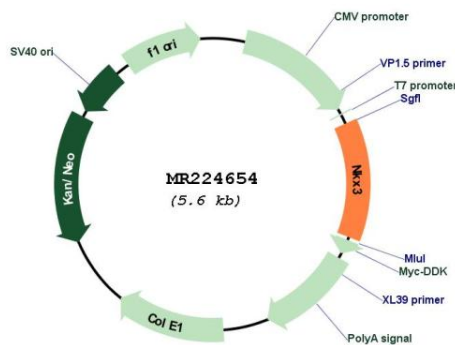
UniProt ID: [P97436](#)

Cytogenetics: 14 36.02 cM

MW: 26.8 kDa

Gene Summary: Transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor (By similarity). Plays an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. Acts as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to suppress growth and tumorigenicity of prostate carcinoma cells. Plays a role in the formation of minor salivary glands (particularly palatine and lingual glands). Essential for appropriate differentiation and secretory function of the bulbourethral gland. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224654