

## Product datasheet for **MG224654**

### **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:** TurboGFP  
**Symbol:** Nkx3-1  
**Synonyms:** bagpipe; Bax; Nkx-3.1; NKX3.1; NKX3A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG224654 representing NM\_010921  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTAGGGTAGCGGAGCCCCGAGAGCCACGGGTGGAGGCGGGTGGCCGAGTCCTTGGGCAGCGCCAC  
CCACGCAGTCCAAGCGGCTCACCTCCTTCCTCATCCAGGACATCCTGCGGGACCGCGGGAGCGGCACGG  
GGGACACTCAGGCAATCCGCAGCACTCGCCGACCCTAGGAGGGACTCCGCTCCAGAGCCCCGACAAAGCA  
GGGGTTCGCGCGTGGCTCCGGAGGACCCACCAAGTATCCGGCATAGCCCCGCGGAGACACCGACTGAAC  
CCGAGTCTGATGCACATTTTGGACTTATCTTTGGACTGTGAACATAATCCAGGGGACTTAGCAAGTGC  
CCCCAGGTACCAAGCAGCCACAGAAGCGCTCCCGGGCCGCTTCTCTCACACTCAGGTGATTGAGTTG  
GAGAGGAAGTTCAGCCATCAGAAGTACCTGTCTGCCCTGAGAGGGCTCACCTGGCCAAGAACCTCAAAC  
TCACCGAAACCAAGTCAAATATGGTTCCAGAACAGACGCTATAAGACCAAGCGAAAGCAGCTGTCCGA  
AGACCTGGGAGTCTTGGAGAAGAACTACCATTGTCTTTGCCAGCCCTGAAAGATGACAGCCTGCCAGT  
ACCTCCTTGGTCTCCGTGTATACTAGCTATCCCTACTACCCTACCTGTACTGTCTGGGCAGCTGGCATC  
CATCTTTCTGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224654 representing NM\_010921  
Red=Cloning site Green=Tags(s)

MLRVAEPREPRVEAGGRSPWAAPPTQSKRLTSFLIQDILRDRAERHGGHSGNPQHSPDPRRDSAPEPKA  
 GGRGVAPEDPPSIRHSPAETPTEPESDAHFETYLLDCEHNPGDLASAPQVTKQPQKRSRAAFSHTQVIEL  
 ERKFSHQKYL SAPERAHLAKNLKLTETQVKIWFQNRRYKTKRQKLS E D L G V L E K N S P L S L P A L K D D S L P S  
 T S L V S V Y T S Y P Y P Y L Y C L G S W H P S F W

TRTRPLE - GFP Tag - V

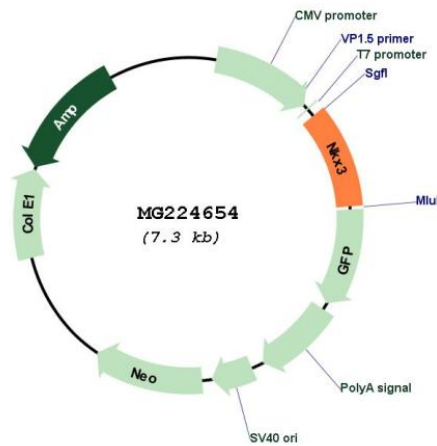
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_010921

**ORF Size:** 711 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_010921.3</a> , <a href="#">NP_035051.1</a>
<b>RefSeq Size:</b>	3137 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	18095
<b>UniProt ID:</b>	<a href="#">P97436</a>
<b>Cytogenetics:</b>	14 36.02 cM
<b>Gene Summary:</b>	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]