

## Product datasheet for MR224227

### Nkx3-2 (NM\_007524) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx3-2 (NM_007524) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nkx3-2
Synonyms:	Bapx1; Nkx-3.2; NKX3.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224227 representing NM_007524 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGTGCGCGGCAGCGGCACCTTGACGCCCTTCTCCATCCAGGCGATCCTCAACAAGAAAGAGGAGC  
GCGGCGGGTTGGCTACGCCGGAGGGGCGCCGGCACCAGGGGACAGAGGTGGCGGTGACCGGGCGCC  
CGCGTCTGCTGCTGGCGGATCTTCGGGGAGACCAGGCCGTTGCGCTGGGGGGCGCCGAGGACTCTTT  
CTGGCATCTCCCGCCGAACAGAACAGCCGTGGGGCAGAGCGCAGAGAGTCCGGGAGGTTGGGACTCAG  
ACTCAGCCCTGAGCGAAGAGAACGAGGGCAGGAGGCGCTGCGCCGATGTCCCGGAGCCAGTGGAACCGG  
CCGCGCCAGGGTGACCCTGGGCCTGGACCAGCCAGGCTGCGAGCTGCACGCCCAAGGACTGGAGGAG  
GAAGCCCCGGTCCGCAGCGACAGCGAGATGTACGCCAGCGTTTCAGGCGACCACAGCCCGAGAGGCGAGG  
ATGACAGCGTTAGCCCTGGAGGTGCACGCGTGCCTGGGTTGCGCGCGCCGCGGGGAGCGGGGCTAGCGG  
CGGGCAGGCGGGCGGCGTGGAGGAGGAGGAAGAGCCCGCAGCCCTAAACCGCAAAGAAGCGCTCCCGG  
GCCGCTTCTCGCACGCCAGGTCTTCGAGCTGGAGCGCCGCTTTAACCATCAGCGCTACCTGTCCGGGC  
CGGAGCGCGCAGACCTGGCAGCTTCGCTGAAGCTCACAGAGACGCAAGTGAAGATCTGGTTTCAGAACCG  
TCGCTACAAGACCAACGCCGGCAGATGGCCGCCGACCTGCTCGCTCTGCACCCGCCCAAGAAAGTG  
GCCGTAAGGTGCTGGTGCCTGACGACCAAGACAGTATTGCCCGGAGAGGTGCTGAGGCCACCTTCCC  
TTCTGCCACTGCAGCCCTCTACTACTACCTTACTACTGTCTCCCGGGCTGGGCCTGTCCACGTGCGC  
GGCCGCTGCTGGTACCCAG

**CTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACG**  
**ATAAGGTTTAA**



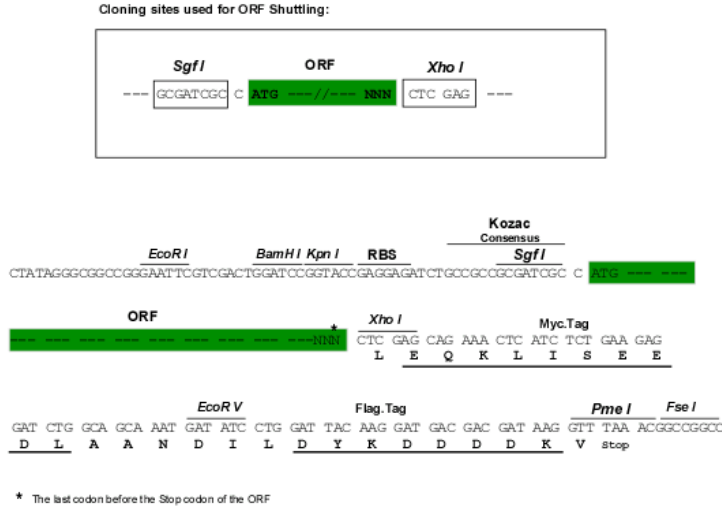
**Protein Sequence:** >MR224227 representing NM\_007524  
Red=Cloning site Green=Tags(s)

MAVRGSGTLTPFSIQAILNKKEERGGLATPEGRPAPGGTEVAVTAAPAVCCWRIFGETEAGALGGAEDSL  
 LASPARTRTAVGQSAESPGGWSDSALSEENEGRRRCADVPGASGTGRARVTLGLDQPGCELHAAKDL  
 EAPVRSDEMSASVSGDHSRPGEDDSVSPGGARVPLRGAAGSGASGGQAGGVEEEEPAAKPKRKR  
 AAFSHAQVFELEERRFNHQRYSGLPERADLAASLKLTTETQVKIWFQNRRYKTKRRQMAADLLASAPAAKKV  
 AVKVLVRDDQRQYLPGEVLRPPSLLPLQPSYYYPPYYCLPGWALSTCAAAGTQ

LEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-XhoI

**Cloning Scheme:**



**ACCN:** NM\_007524

**ORF Size:** 999 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\\_007524.3](#), [NP\\_031550.2](#)

**RefSeq Size:** 1437 bp

**RefSeq ORF:** 1002 bp

**Locus ID:** 12020

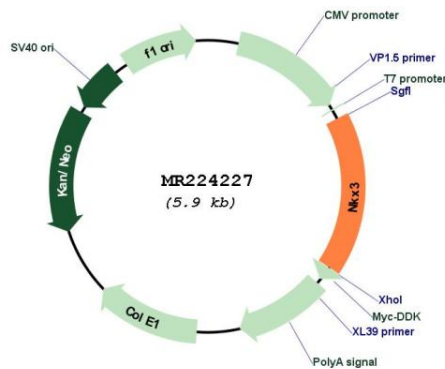
**UniProt ID:** [P97503](#)

**Cytogenetics:** 5 22.58 cM

**MW:** 35.6 kDa

**Gene Summary:** Transcriptional repressor that acts as a negative regulator of chondrocyte maturation. PLays a role in distal stomach development; required for proper antral-pyloric morphogenesis and development of antral-type epithelium. In concert with GSC, defines the structural components of the middle ear; required for tympanic ring and gonium development and in the regulation of the width of the malleus.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR224227