

Product datasheet for **RR208031**

Nkx2-1 (NM_013093) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2-1 (NM_013093) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nkx2-1
Synonyms:	Titf1; TTF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR208031 representing NM_013093 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGATGAGTCCAAGCACACGACTCCGTTCTCAGTGTCTGACATCTTGAGTCCCCTGGAGGAAAGCT
ACAAGAAAGTGGGCATGGAGGGCGCGGCTCGGGCTCCGCTCGCAGCTTACAGACAGGGCCAGGCGGC
CCCGCCGGCCGGCCATGCAGCAGCACGCCGTGGGGACCACGGCGCCGTACCGCCGCTACCACATG
ACGGCGGGGGGTGCCAGCTCTCCACTCCGCGTGGGGGCTACTGCAACGGCAACCTGGGAACG
TGAGCGAGCTGCCACCTACCAGGACACCATGCGGAACAGCGCTTCGGGCCCGGATGGTACGGCGCAA
CCCAGATCCGCGCTTCCCGCCATCTCCGCTTATGGGCCCGGCGAGCGGCATGAATATGAGCGGCATG
GGCGGCCCTGGGCTCGCTGGGGACGTGAGCAAGAACATGGCCCCGCTGCCAGCGCACCCCGCCGGAAGC
GTCGGGTGCTCTTCTCCAGGCGCAGGTGTACGAGCTCGAGCGACGCTTCAAGCAGCAGAAGTACCTGTC
GGCGCCGGAGCGCGAGCATCTGGCCAGCATGATCACCTGACACCCACGCAGGTCAAGATCTGGTCCAG
AACCACCGCTACAAGATGAAGCGCCAGGCGAAGGACAAGGCGCGCAGCAGCAACTGCAGCAGGACAGCG
GCGGGCGGAGGCGGCGGCGGGCGGGTTCGCCGACGAGCAGCAAGCTCAGCAGCAGTCCGCCGCG
CCGGGTGGCCGTGCCGTCTGGTGAAGACGGCAAACCTGCCAAGCGGGCGCCCTGCACCGGGAGCC
GCCAGCTGCAAGGCCACGCGCAACAACAAGCTCAGCAGCAGGCGCAGGCGGCAAGCGGCTGCCGCGG
CCATCTCTGTGGCAGCGGTGGTGGGGTCTAGGAGCACACCCAGGCCACCGCCGCGCAGGCGCAGGGCA
GTCCCCGACCTGGCGCACCGCAGCCAGCCCCGAGCGCTGCAGGGCCAGGTCTCTAGCCTATCTCAT
CTGAACCTCTGGCTCGGACTATGGGCCATGTCTTGCTCTACTTTGCTTTATGGTCGGACCTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR208031 representing NM_013093
 Red=Cloning site Green=Tags(s)

MSMSPKHTTFFSVSDILSPLEESYKKVGMEGGGLGAPLAAYRQQQAAPPAAAMQQHAVGHHGAVTAAAYHM
 TAAGVPLSHSAVGGYCNGNLGNVSELPYQDTRNSASGPGWYGANPDRFPAISRFGPASGMNMSGM
 GGLGSLGDVSKNMAPLPSAPRRRRRVLFSQAQVYELERRFKQKYL SAPEREHLASMIHL TPTQVKIWFQ
 NHRYKMKRQAKDKAAQQQLQDSSGGGGGGGAGCPQQQQAQQQSPRRVAVPVL VKDGPQAGAPPGA
 ASLQGHAAQQQAQAAQAAAAAISVSGGGAGLGAHPGHQPGSAGQSPDLAHHAAASPAALQGVSSL SH
 LNSSGSDYGAMSCSTLLYGRTW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013093

ORF Size: 1116 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_013093.1, NP_037225.1

RefSeq Size: 2297 bp

RefSeq ORF: 1119 bp

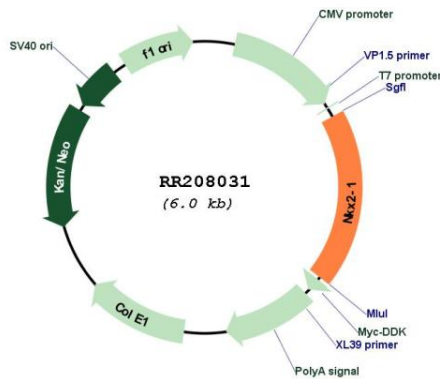
Locus ID: 25628

Cytogenetics: 6q23

MW: 38.5 kDa

Gene Summary: transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin receptor; may play a role in organogenesis and/or reproductive maturation and development [RGD, Feb 2006]

Product images:



Circular map for RR208031