

Product datasheet for **RG210374**

Nkx3.1 (NKX3-1) (NM_006167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx3.1 (NKX3-1) (NM_006167) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nkx3.1
Synonyms:	BAPX2; NKX3; NKX3.1; NKX3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210374 representing NM_006167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCAGGGTCCGGAGCCGGGCCCGGGGAGGCGAAAGCGGAGGGGGCCGGCCGCCGACCCCGTCCA
AGCCGCTCACGTCTTCTCATCCAGGACATCCTGCGGGACGGCGCAGCGGCAAGCGGCCGCACGAG
CAGCCAGAGACAGCGGACCCGGAGCCGGAGCCAGAGCCAGAGGGAGGACGCAGCCGCGCCGGG
GCGCAGAACGACCAGCTGAGCACCGGGCCCGCCGCGCGGAGGAGCCGAGACGCTGGCAGAGACCC
AGCCAGAAAGGCACTTGGGTCTTATCTGTTGGACTCTGAAAACACTTCAGGCGCCCTTCAAGGCTTCC
CCAAACCCCTAAGCAGCCGAGAAGCGCTCCCGAGCTGCCTTCTCCACACTCAGGTGATCGAGTTGGAG
AGGAAGTTCAGCCATCAGAAGTACCTGTGCGCCCTGAACGGGCCACCTGGCCAAGAACCTCAAGCTCA
CGGAGACCCAAGTGAAGATATGGTTCCAGAACAGACGCTATAAGACTAAGCGAAAGCAGCTCTCCTCGGA
GCTGGGAGACTTGGAGAAGCACTCCTCTTTGCCGGCCCTGAAAGAGGAGGCTTCTCCGGGCCCTCCCTG
GTCTCCGTGTATAACAGCTATCCTTACTACCCATACCTGTACTGCGTGGGAGCTGGAGCCAGCTTTTT
GG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210374 representing NM_006167
Red=Cloning site Green=Tags(s)

MLRVPEPRPGEAKAEGAAPPTPSKPLTSFLIQDILRDGAQRQGGRTSSQRQRDPEPEPEPEPEGGRSRAG
 AQNDQLSTGPRAAPEEAETLAETEPERHLGSYLLDSENTSGALPRLPQTPKQPQKRSRAAFSHTQVIELE
 RKFSHQKYL SAPERAHLAKNLKLTETQVKIWFQNRRYKTKRKQLSSELGDLEKHSSLPALKEEAFSRASL
 VSVYNSYPYYPYLYCVGSWSPAFW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006167

ORF Size: 702 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_006167.4](#)

RefSeq Size: 3266 bp

RefSeq ORF: 705 bp

Locus ID: 4824

UniProt ID: [Q99801](#)

Cytogenetics: 8p21.2

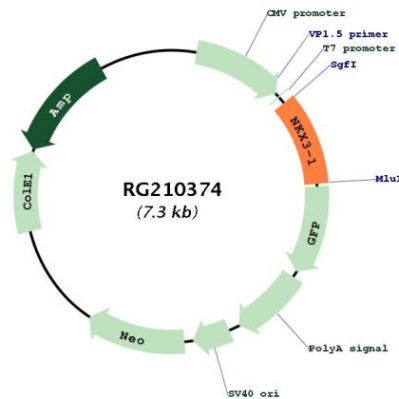
Domains: homeobox

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Pathways in cancer, Prostate cancer

Gene Summary: This gene encodes a homeobox-containing transcription factor. This transcription factor functions as a negative regulator of epithelial cell growth in prostate tissue. Aberrant expression of this gene is associated with prostate tumor progression. Alternate splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG210374