

Product datasheet for RG231901

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Nkx3.1 (NKX3-1) (NM_001256339) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Nkx3.1 (NKX3-1) (NM 001256339) Human Tagged ORF Clone

Tag: TurboGFP Symbol: NKX3-1

Synonyms: BAPX2; NKX3; NKX3.1; NKX3A

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG231901 representing NM_001256339
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGCTCAGGGTTCCGGAGCCGCGGCCCGGGGAGGCCGAGACGCTGGCAGAGACCCAGAAAAGGCACT
TGGGGTCTTATCTGTTGGACTCTGAAAACACTTCAGGCGCCCTTCCAAGGCTTCCCCAAACCCCTAAGCA
GCCGCAGAAGCGCTCCCGAGCTGCCTTCTCCCACACTCAGGTGATCGAGTTGGAGAGGAAGTTCAGCCAT
CAGAAGTACCTGTCGGCCCCTGAACGGGCCCACCTGGCCAAGAACCTCAAGCTCACGGAGACCCAAGTGA
AGATATGGTTCCAGAACAGACGCTATAAGACTAAGCGAAAGCAGCTCTCCTCGGAGCTGGGAGACTTGGA
GAAGCACTCCTCTTTGCCGGCCCTGAAAGAGGAGGCCTTCTCCCCGGGCCTCCCTGGTCTCCGTGTATAAC
AGCTATCCTTACTACCCATACCTGTACTGCGTGGGCAGCTGGAGCCCAGCTTTTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231901 representing NM_001256339

Red=Cloning site Green=Tags(s)

MLRVPEPRPGEAETLAETEPERHLGSYLLDSENTSGALPRLPQTPKQPQKRSRAAFSHTQVIELERKFSHQKYLSAPERAHLAKNLKLTETQVKIWFQNRRYKTKRKQLSSELGDLEKHSSLPALKEEAFSRASLVSVYN

SYPYYPYLYCVGSWSPAFW

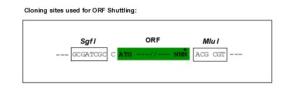
TRTRPLE - GFP Tag - V

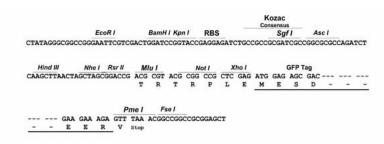
Restriction Sites: Sgfl-Mlul



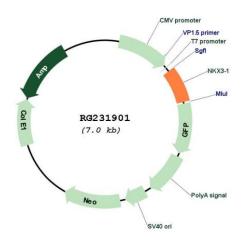


Cloning Scheme:





Plasmid Map:



ACCN: NM 001256339

ORF Size: 477 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.

ORIGENE

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: <u>NM 001256339.1</u>, <u>NP 001243268.1</u>

 RefSeq Size:
 3024 bp

 RefSeq ORF:
 480 bp

 Locus ID:
 4824

 UniProt ID:
 Q99801

 Cytogenetics:
 8p21.2

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]