

Product datasheet for **RG231901**

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 Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231901 representing NM_001256339
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCAGGGTCCGGAGCCGGCCCGGGGAGGCCGAGACGCTGGCAGAGACCGAGCCAGAAAGGCACT
 TGGGGTCTTATCTGTTGGACTCTGAAAACACTTCAGGCGCCCTTCCAAGGCTTCCCAAACCCCTAAGCA
 GCCGCAGAAGCGCTCCCGAGCTGCCTTCTCCCACTCAGGTGATCGAGTTGGAGAGGAAGTTCAGCCAT
 CAGAAGTACCTGTCGGCCCTGAACGGGCCACCTGGCCAAGAACCTCAAGCTCACGGAGACCCAAGTGA
 AGATATGGTTCCAGAACAGACGCTATAAGACTAAGCGAAAGCAGCTCTCCTCGGAGCTGGGAGACTTGA
 GAAGCACTCCTCTTTGCCGGCCCTGAAAGAGGAGGCTTCTCCCGGCCTCCCTGGTCTCCGTGTATAAC
 AGCTATCCTTACTACCCATACCTGTACTGCGTGGGCAGCTGGAGCCCAGCTTTTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231901 representing NM_001256339
 Red=Cloning site Green=Tags(s)
 MLRVPEPRPGEAETLAETEPERHLGSYLLDSENTSGALPRLPQTPKQPQKRSRAAFSHTQVIELERKFSH
 QKYL SAPERAHLAKNLKLTETQVKIWFQNRRYKTKRKQLSSELGDLEKHSSLPALKEEAFSRASLVSVYN
 SYPYYPYLYCVGSWSPAFW

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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:	<u>Q99801</u>
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]