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Product datasheet for MC209041

Nkx3-1 (NM_010921) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx3-1 (NM_010921) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nkx3-1
Synonyms:	bagpipe; Bax; Nkx-3.1; NKX3.1; NKX3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209041 representing NM_010921 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTTAGGGTAGCGGAGCCCCGAGAGCCACGGGTGGAGGCGGGTGGCCGCAGTCCTTGGGCAGCGCCAC CCACGCAGTCCAAGCGGCTCACCTCCTTCCTCATCCAGGACATCCTGCGGGACCGCGCGGAGCGGCACGG GGGACACTCAGGCAATCCGCAGCACTCGCCGGACCCTAGGAGGGACTCCGCTCCAGAGCCCGACAAAGCA GGGGGTCGCGGCGTGGCTCCGGAGGACCCACCAAGTATCCGGCATAGCCCCGCGGAGACACCGACTGAAC CCGAGTCTGATGCACATTTTGAGACTTATCTTTTGGACTGTGAACATAATCCAGGGGACTTAGCAAGTGC CCCCCAGGTCACCAAGCAGCCACAGAAGCGCTCCCGGGCCGCCTTCTCTCACACTCAGGTGATTGAGTTG GAGAGGAAGTTCAGCCATCAGAAGTACCTGTCTGCCCCTGAGAGGGCTCACCTGGCCAAGAACCTCAAAC TCACCGAAACCCAAGTCAAAATATGGTTCCAGAACAGACGCTATAAGACCAAGCGAAAGCAGCTGTCGGA AGACCTGGGAGTCTTGGAGAAGAACTCACCATTGTCTTTGCCAGCCCTGAAAGATGACAGCCTGCCCAGT ACCTCCTTGGTCTCCGTGTATACTAGCTATCCCTACTACCCCTACCTGTACTGTCTGGGCAGCTGGCATC CATCTTTCTGGTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_010921
Insert Size:	714 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_010921.3, NP_035051.1
RefSeq Size:	3137 bp
RefSeq ORF:	714 bp
Locus ID:	18095
UniProt ID:	P97436
Cytogenetics:	14 36.02 cM
Gene Summary:	Transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor (By similarity). Plays an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. Acts as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to suppress growth and tumorigenicity of prostate carcinoma cells. Plays a role in the formation of minor salivary glands (particularly palatine and lingual glands). Essential for appropriate differentiation and secretory function of the bulbourethral gland. [UniProtKB/Swiss-Prot Function]