

Product datasheet for MR205757

Nkx2-1 (NM_009385) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2-1 (NM_009385) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nkx2-1
Synonyms:	AV026640; Nkx2.1; T/EBP; Titf1; Ttf-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205757 representing NM_009385 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGATGAGTCCAAGCACACGACTCCGTTCTCAGTGTCTGACATCTTGAGTCCCCTGGAGGAAAGCT
ACAAGAAAGTGGGCATGGAGGGCGCGGCTCGGGCTCCGCTCGCAGCGTACAGACAGGGCCAGGCGGC
CCCACCGCCGCGCCATGCAGCAGCACGCCGTGGGGACCACGGCGCGTACCAGCCGCTACCACATG
ACGGCGGGGGTGCCAGCTCTCGACTCCGCGTGGGGGCTACTGCAACGGCAACCTGGGAACA
TGAGCGAGCTGCCGCTTACCAGGACACCATGCGGAACAGCGCTTCGGGCCCGGATGGTACGGCGCAA
CCCAGACCCGCGCTTCCCGCCATCTCCGCTTATGGGCCCGGCGAGCGGCATGAATATGAGTGGCATG
GGCGGCTGGGCTCGCTGGGGACGTGAGCAAGAACATGGCCCCGCTGCCAGTGCGCCCGCGGAAGC
GCCGGGTGCTTCTCCAGGCGCAGGTGTACGAGCTCGAGCGACGTTTCAAGCAACAGAAGTACCTGTC
GGCGCCGAGCGGAGCATCTGGCCAGCATGATCACCTGACACCCACGCAGGTCAAGATCTGGTCCAG
AACCACCGCTACAAGATGAAGCGCCAGGCTAAGGACAAGGCGCGCAGCAAACTGCAGCAGGACAGCG
GCGGCGCGGAGGCGCGGTGGCGGTGCGGGATGCCCGCAGCAGCAGCAAGCTCAGCAGCAGTCCGCCG
CCGGGTGGCGTCCCGTCTAGTCAAAGACGGCAAACCTGCCAGGCGGGCGCCCTGCCCGGGAGCC
GCAAGCCTGCAAAGCCACGCGCAGCAACAAGCTCAGCAGCAGGCGCAGGCGGCGCAAGCGGCTGCCGCG
CCATCTCAGTGGGCAGCGGTGGCGGGTCTAGGAGCACACCCAGGCCACCGCCGCGCAGGCGCAGGGCA
GTCCCGGACCTGGCGCACCGCAGCCAGCCCGCGGGGCTGCAGGGCCAGGTCTCCAGCCTATCCCAT
CTGAACCTCTCGGGCTCGGACTATGGCCCATGTCTTGTCTACCTTGTCTTATGGTCCGACCTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205757 representing NM_009385
Red=Cloning site Green=Tags(s)

MSMSPKHTTPFSVSDILSPLSESYKKVGMEGGGLGAPLAAYRQQAAPPAAAMQQHAVGHHGAVTAAAYHM
 TAAGVPQLSHSAVGGYCNGNLGNMSELPPYQDTMRNSASGPGWYGANPDRFPAISRFGMPASGMNMSGM
 GGLGSLGDVSKNMAPLPSAPRRKRRVLFSAQVYELERRFKQKYL SAPEREHLASMIHL TPTQVKIWFQ
 NHRYKMKRQAKDKAAQQQLQQDSGGGGGGGAGCPQQQQAQQQSPRRVAVPVL VKDGKPCQAGAPPGA
 ASLQSHAQQQAQQQAQAAAAAISVSGGGAGLGAHPGHQPGSAGQSPDLAHHAAASPAGLQGVSSL SH
 LNSSGSDYGAMSCSTLL YGRTW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9032_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009385

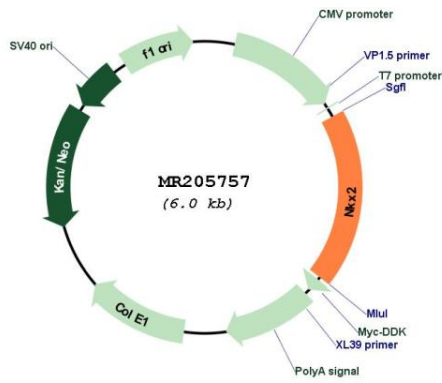
ORF Size: 1116 bp

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:	<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:	NM_009385.3 , NP_033411.3
RefSeq Size:	2832 bp
RefSeq ORF:	1119 bp
Locus ID:	21869
UniProt ID:	P50220
Cytogenetics:	12 24.42 cM
MW:	39 kDa
Gene Summary:	Transcription factor that binds and activates the promoter of thyroid specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin receptor. Crucial in the maintenance of the thyroid differentiation phenotype. May play a role in lung development and surfactant homeostasis. Forms a regulatory loop with GRHL2 that coordinates lung epithelial cell morphogenesis and differentiation (PubMed:22955271). Activates the transcription of GNRHR and plays a role in enhancing the circadian oscillation of its gene expression. Represses the transcription of the circadian transcriptional repressor NR1D1 (PubMed:22356123). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205757