

## Product datasheet for MC209532

### Nkx2 (NM\_001146198) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2 (NM_001146198) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nkx2
Synonyms:	AV026640; Nkx2.1; T/EBP; Titf1; Ttf-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209532 representing NM_001146198 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGATGAGTCCAAGCACACGACTCCGTTCTCAGTGTCTGACATCTTGAGTCCCCTGGAGGAAAGCT  
ACAAGAAAGTGGGCATGGAGGGCGCGGCTCGGGCTCCGCTCGCAGCGTACAGACAGGGCCAGGCGGC  
CCCACCGCCGCGCCATGCAGCAGCACGCCGTGGGGACCACGGCGCCGTACCGCCGCTACCACATG  
ACGGCGGGGGTGCCAGCTCTCGACTCCGCGTGGGGGCTACTGCAACGGCAACCTGGGAACA  
TGAGCGAGCTGCCGCTTACCAGGACACCATGCGGAACAGCGCTTCGGGCCCGGATGGTACGGCGCAA  
CCCAGACCCGCGCTTCCCGCCATCTCCCGCTTATGGGCCCGGCGAGCGGCATGAATATGAGTGGCATG  
GGCGGCTGGGCTCGCTGGGGGACGTGAGCAAGAACATGGCCCCGCTGCCAGTGCGCCCGCGGAAGC  
GCCGGGTGCTTCTCCAGGCGCAGGTGTACGAGCTCGAGCGACGTTTCAAGCAACAGAAGTACCTGTC  
GGCGCCGAGCGGAGCATCTGGCCAGCATGATCACCTGACACCCACGCAGGTCAAGATCTGGTCCAG  
AACCACCGCTACAAGATGAAGCGCCAGGCTAAGGACAAGGCGGCGCAGCAACAACCTGCAGCAGGACGCG  
GCGGGCGGAGGCGCGGTGGCGGTGCGGGATGCCCGCAGCAGCAGCAAGCTCAGCAGCAGTCCGCCG  
CCGGGTGGCGGTGCCGCTCTAGTCAAAGACGGCAAACCTGCCAGGCGGGCGCCCTGCCCGGGAGCC  
GCAAGCTGCAAAGCCACGCGCAGCAACAAGCTCAGCAGCAGGCGCAGGCGGCGCAAGCGGCTGCCGCG  
CCATCTCAGTGGGCAGCGGTGGCGGGTCTAGGAGCACACCCAGGCCACCGCGGCGCAGGCGCAGGGCA  
GTCCCGGACCTGGCGCACCGCAGCCAGCCCGCGGGGCTGCAGGGCCAGGTCTCCAGCCTATCCCAT  
CTGAACCTCTCGGCTCGGACTATGGCCCATGTCTTGTCTACCTTGTCTTATGGTCGGACCTGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI



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<b>ACCN:</b>	NM_001146198
<b>Insert Size:</b>	1119 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001146198.1</a></u> , <u><a href="#">NP_001139670.1</a></u>
<b>RefSeq Size:</b>	2265 bp
<b>RefSeq ORF:</b>	1119 bp
<b>Locus ID:</b>	21869
<b>Cytogenetics:</b>	12 24.42 cM
<b>Gene Summary:</b>	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]