

## Product datasheet for **MC209036**

### **Nkx2-2 (NM\_001077632) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nkx2-2 (NM\_001077632) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nkx2-2  
**Synonyms:** Nkx-2.2; Nkx2.2; tinman  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209036 representing NM\_001077632  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCGCTGACCAACACAAAGACGGGGTTTTTCAGTCAAGGACATCTTGGACCTTCCGGACACCAACGATG  
AAGACGGCTCGGTGGCCGAAGGGCCAGAGGAGGAGAGCGAAGGGCCGAGCCCGCAAGAGGGCCGGCC  
GCTGGGGCAGGGCGCCCTGGACGCTGTGCAGAGCCTGCCCTTAAGAGCCCTTTCTACGACAGCAGCGAC  
AACCCCTACACTCGCTGGCTGGCCAGCACCAGGGCCCTCAATACTCCCTGCACGGGCTGGCGGCCAGCG  
CTCCCCCAAGACTCGAGCTCCAAATCCCAGAGCCCTCGGCTGACGAGTACCAGGACAATGACAAGGA  
GACCCAGGGCGGGGGGGACGCAGGCAAGAAGCGGAAGCGCCGAGTGCTCTTCTCAAAGCGCAGACC  
TACGAGCTGGAGCGGCGCTTCCGGCAGCAGCGGTACCTGTCCGCGCCGAGCGGAGCACCTGGCCAGCC  
TCATCCGTCTCACGCCGACACAGGTCAAGATCTGGTCCAGAACCATCGCTACAAGATGAAACGTGCCCG  
GGCGGAGAAAGCATTTCAAACCAGCGGATGGATGCCAGGATCGAAGCTGCGGTGCCCATAGTGTCCGCA  
AGGTGGAGCGATTGGATAAGAAAACAATTCAGGTCGGGCGACTGACTCAGGCCTGGGAGCAACAATCTGG  
TCATCTGTGGATTTGAGGGATGTCTGGTAAAGTCCATTTACAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001077632  
**Insert Size:** 747 bp



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|-------------------------------|---|
| <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_001077632.1</a></u> , <u><a href="#">NP_001071100.1</a></u>   |
| <b>RefSeq Size:</b>           | 1354 bp   |
| <b>RefSeq ORF:</b>            | 747 bp  |
| <b>Locus ID:</b>              | 18088   |
| <b>Cytogenetics:</b>          | 2 72.63 cM  |
| <b>Gene Summary:</b>          | Transcriptional activator involved in the development of insulin-producing beta cells in the endocrine pancreas (PubMed:11076772). May also be involved in specifying diencephalic neuromeric boundaries, and in controlling the expression of genes that play a role in axonal guidance. Binds to elements within the NEUROD1 promoter (PubMed:19759004).<br>[UniProtKB/Swiss-Prot Function]   |