

Product datasheet for **MC209038**

Nkx2-5 (NM_008700) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2-5 (NM_008700) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nkx2-5
Synonyms:	Csx; Nkx-2.5; Nkx2.5; tinman
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_008700, the custom clone sequence may differ by one or more nucleotides

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ATGTTCCCCAGCCCTGCGCTCACACCCACGCCTTTCTCAGTCAAAGACATCCTGAACCTGGAGCAGCAGC
AGCGTAGCCTGGCGTCTGGGGACCTGTCTGCGCGCCTCGAGGCCACCCTGGCCCCCTGCCTCTGCATGCT
GGCCGCCCTTCAAGCCCGAGGCCTACTCTGGCCCCGAGGCGGCAGCGTCCGGCCTGGCAGAGCTGCGCGCG
GAGATGGGCCCGCGCTTCGCCCCCAAGTGCTCTCTGCTTTCCAGCCGCCCCACATTTTACCCGG
GAGCCTACGGTGACCCTGACCCAGCCAAAGACCCTCGGGCGGATAAAAAAGAGCTGTGCGCGCTGCAGAA
GGCAGTGGAGCTGGACAAAGCCGAGACGGATGGCGCCGAGAGACCACGCGCACGGCGCGACGGAAGCCA
CGCGTGCTCTTCTCGCAGGCGCAGGTCTACGAGCTGGAGCGGCGCTTCAAGCAACAGCGGTACCTGTCCG
CGCCAGAGCGCGACCAGCTGGCCAGCGTCTGAAGCTCACGTCCACGCAGGTCAAGATCTGGTTCCAGAA
CCGTGCTACAAGTGCAAGCGACAGC : GGCAGGACCAGACTCTGGAGCTTCTGGGGCCGCCGCCGCCGCC
CGCGCGCAGGATCGCGGTGCCCGTGTGGTGCGCGACGGGAAGCCCTGCCTGGGGGACCCCGCGGCTAC
GCTCCCGCCTACGGCGTGGGTCTCAATGCCTATGGCTACAACGCCTACCCCTACCCAGCTACGGCGGGC
CGGCTGCAGTCCCGCTACAGCTGCGCCGCTACCCCGCTGCGCCCCCGCGCGCAGCCCCCGCCG
CTCCGCCAACAGCAACTTCGTGAACCTTGGCGTCGGGGACTTGAACACCGTGCAGAGTCCCGGGATGCC
CAGGGCAATTGGGCGTCTCCACGCTGCACGGCATCCGAGCCTGGTAG

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Restriction Sites:	Sgfl-RsrII
ACCN:	NM_008700
Insert Size:	957 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:	<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:	BC139299 , AAI39300
RefSeq Size:	1110 bp
RefSeq ORF:	957 bp
Locus ID:	18091
UniProt ID:	P42582
Cytogenetics:	17 13.6 cM
Gene Summary:	Implicated in commitment to and/or differentiation of the myocardial lineage. Acts as a transcriptional activator of ANF in cooperation with GATA4. Binds to the core DNA motif of NPPA promoter. It is transcriptionally controlled by PBX1 and acts as a transcriptional repressor of CDKN2B. Together with PBX1, it is required for spleen development through a mechanism that involves CDKN2B repression.[UniProtKB/Swiss-Prot Function]