

Product datasheet for MR227399

Nkx2-5 (NM_008700) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2-5 (NM_008700) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR227399 representing NM_008700 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCCGAGCCCTGCGCTCACACCCACGCCTTCTCAGTCAAAGACATCCTGAACCTGGAGCAGCAGC
AGCGTAGCCTGGCGTCTGGGACCTGTCTGCGCGCCTCGAGGCCACCCTGGCCCCTGCTCCTGCATGCT
GGCCGCCTTCAAGCCCGAGGCCTACTCTGGCCCCGAGGCGGCAGCGTCCGGCCTGGCAGAGCTGCGCGG
GAGATGGGCCCCGCGCTTCGCCCCCAAGTGCTCTCCTGCTTCCAGCCGCCCCACATTTTACCCGG
GAGCCTACGGTGACCCTGACCCAGCCAAAGACCCTCGGGCGGATAAAAAAGAGCTGTGCGCGCTGCAGAA
GGCAGTGGAGCTGGACAAAGCCGAGACGGATGGCGCCGAGAGACCACGCGCACGGCGGCGACGGAAGCCA
CGCGTGCTTCTCGCAGGCGCAGGTCTACGAGCTGGAGCGGCGCTTCAAGCAACAGCGGTACCTGTCCGG
CGCCAGAGCGCGACCAGCTGGCCAGCGTGTGAAGCTCACGTCCACGCAGGTCAAGATCTGGTTCCAGAA
CCGTGCGTACAAGTGCAAGCGACAGCGGACGAGCAGACTCTGGAGCTTCTGGGGCCGCCGCCGCCGCC
GCGCGCAGGATCGCGGTGCCCGTGTGGTGCGGACGGGAAGCCCTGCCTGGGGGACCCCGCGGCTACG
CTCCCGCTACGGCGTGGGTCTCAATGCCTATGGCTACAACGCCTACCCCTACCCAGCTACGGCGGCGC
GGCCTGCAGTCCCGGCTACAGCTGCGCCGCTACCCCGCTGCGCCCCCGCGCGCAGCCCCCGCCGCC
TCCGCCAACAGCAACTTCGTGAACCTTGGCGTCGGGGACTTGAACACCGTGCAGAGTCCCGGGATGCCGC
AGGGCAATTCGGGCGTCTCCACGCTGCACGGCATCCGAGCCTGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227399 representing NM_008700
 Red=Cloning site Green=Tags(s)

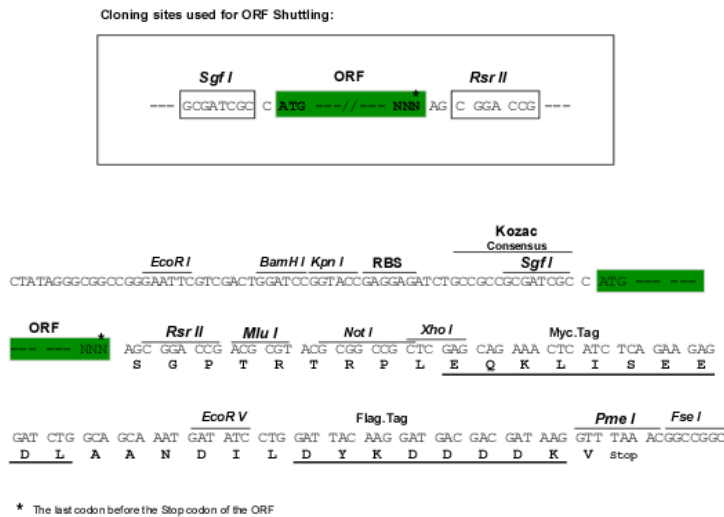
MFPSPAL TPTPF SVK DILNLEQQRSLASGDL SARLEATLAPASCMLAAFKEA YSGPEAAASGLAELRA
 EMGPAPSPPKCSPAFPAAPTFFYPGAYGDPDPADKPRADKKELCALQKAVELDKAETDGAERPRARRRRKP
 RVLFSQAQVYELERRFKQQRYSAPERDQLASVLKLTSTQVKIWFQNRRYKCKRQRDQTLELLGPPPPP
 ARRIA VPVLVRDGKPCLDPAAYAPAYGVLNAYGYNAYPYPSYGAACSPGYSCAAYPAPPPAAQPPAA
 SANSNFVNFVGVGLN TVQSPGMPQNGSVSTLHGIRAW

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_h04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_008700

ORF Size: 954 bp

OTI Disclaimer: 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:

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_008700.2](#), [NP_032726.1](#)

RefSeq Size: 1524 bp

RefSeq ORF: 957 bp

Locus ID: 18091

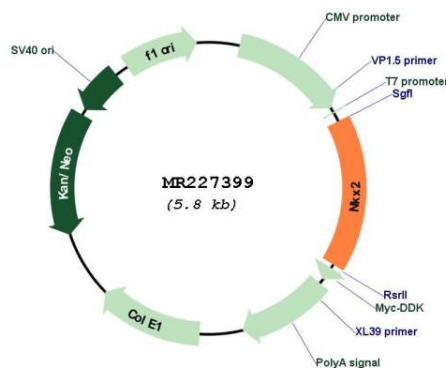
UniProt ID: [P42582](#)

Cytogenetics: 17 13.6 cM

MW: 34.6 kDa

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]

Product images:



Circular map for MR227399