

Product datasheet for MR205563

Nkx2-3 (NM_008699) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2-3 (NM_008699) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nkx2-3
Synonyms:	Nkx-2.3; Nkx2.3; tinman
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205563 representing NM_008699 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTTACCAAGCCCGGTACCTCCACCCCTTCTCAGTCAAAGACATTTTGAATCTGGAGCAGCAGC
GGCACTTCCACGGAGCTCACTTGCAGGCGGAATTGGAGCAGCACTTCCACTCGGCACCCTGCATGCTGGC
CACGGTGAAGGGACGCAGTTTTCCGATGCAGGGGAGGAGGACGAGGAAGAAGAGGGAGAGAACTGTCC
TATTTGAACTCACTAGCTGCTGCCGAGGGCCATGGAGATTCGGGTCTCTGTCTCAGAGCTATGTCCATA
CAGTTCTCCGAGACGCTTGCAGCGGGCCCAAGGAACAAGAAGAGGAGGTTGTGAGCGAACGGAGCCAAAA
AAGCTGTCAGTTGAAGAAGTCTCTGGAAGCGGGCGGAGACTGTAAGACGAGCGAGGACGGCGAGAGGCCG
AAGCCGCGGAGCCGCGGAAGCCCGGGTGTCTTCTCGCAAGCTCAGGTCTTTGAGCTGGAGCGCAGGT
TCAAGCAGCAGCGGTACCTGTGCGCGCCGAGCGGAGCATCTCGCCAGCAGCCTGAAGCTCACGTCCAC
GCAGGTGAAAACTGGTTCCAGAATCGCAGGTACAAGTGCAAGAGACAGCGGCAGGATAAGTCCCTGGAG
CTGGGGACGCACGCGCCGCCGCCACCCCGCGGTGGCAGTGGCGGTGCTCGTGCGGGACGGCAAGC
CGTGCGTCACGCCAGCGCAAACTACGGCTCGCCCTACGGCGTGGCGCGCGGCGCTACTCTACAA
CAGCTTCCCCGCCTACGGCTACGGGAACTCGGCCGCCGACCGCTGCAGCCCGCAGCCGCAGCAGCA
GCGGCGGCTTACAGCGGACGTACGGTGCCTATCCGACCGGTGGCGGGTGGTGGTGGCGGCAGCG
CCTCCGCGGCGACCACCGCATGCAACCCGCTGCAGCGCCACCGCGGTGGATCCTTTGTGAACGTGAG
CAACCTGGGAGGCTTCGGCAGCGCGCGGCGCAACCTTGCATCAAGGTGCTGCAGCCGGTCCGCG
TGCACGCAGGGGACTTTGCAGGGCATCAGGGCTTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205563 representing NM_008699
Red=Cloning site Green=Tags(s)

MMLPSPVTSTPFSVKDILNLEQQRHFHGAHLQAELEQHFHSAPCMLATAEGTQFSDAGEEDEEEEGEKL
 YLNSLAAAEHGDSGLCPQSYVHTVLRDACS GPKEQEEVVVSERSQKSCQLKKSLEAAGDCKTSEDGERP
 KPRSRRKPRVLF SQAQVFELERRFKQRYLSAPEREHLASSLKL TSTQVKIWFQNRRYKCKRQRQDKSLE
 LGTHAPPPRRVAVPVLVRDGPVTPSAQTYGSPYGVGAGAYSYN SFPAYGYGNSAAAAAAAAAAAAA
 AAAYSGSYGCAYPTGGGGGGGTASAATTAMQPACSATGGGSFVNVS NLGGFGSGGGAQPLHQGAAGSA
 CTQGLQGIRAW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_008699

ORF Size: 1086 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_008699.2](#), [NP_032725.1](#)

RefSeq Size: 2145 bp

RefSeq ORF: 1089 bp

Locus ID: 18089

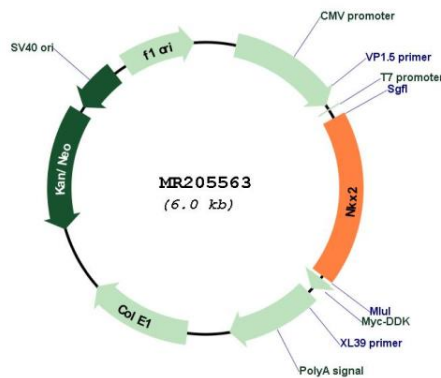
UniProt ID: [P97334](#)

Cytogenetics: 19 36.67 cM

MW: 38.5 kDa

Gene Summary: Transcriptional regulator essential for normal development and functions of the small intestine and spleen. Activates directly MADCAM1 expression. Required for homing of lymphocytes in spleen and mucosa-associated lymphoid tissue. May have a role during pharyngeal organogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205563