

Product datasheet for **MG205563**

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:	TurboGFP
Symbol:	Nkx2-3
Synonyms:	Nkx-2.3; Nkx2.3; tinman
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205563 representing NM_008699 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTTACCAAGCCCGGTACCTCCACCCCTTCTCAGTCAAAGACATTTTGAATCTGGAGCAGCAGC
GGCACTTCCACGGAGCTCACTTGCAGGCGGAATTGGAGCAGCACTTCCACTCGGCACCCTGCATGCTGGC
CACGGCTGAAGGGACGCAGTTTTCCGATGCAGGGGAGGAGGACGAGGAAGAAGAGGGAGAGAACTGTCC
TATTTGAACTCACTAGCTGCTGCCGAGGGCCATGGAGATTCGGGTCTCTGTCTCAGAGCTATGTCCATA
CAGTTCTCCGAGACGCTTGCAGCGGGCCCAAGGAACAAGAAGAGGAGGTTGTGAGCGAACGGAGCCAAAA
AAGCTGTCAGTTGAAGAAGTCTCTGGAAGCGGGCGGAGACTGTAAGACGAGCGAGGACGGCGAGAGGCCG
AAGCCGCGGAGCCGCGGAAGCCCGGGTGTCTTCTCGCAAGCTCAGGTCTTTGAGCTGGAGCGCAGGT
TCAAGCAGCAGCGGTACCTGTGCGCGCCGAGCGGAGCATCTCGCCAGCAGCCTGAAGCTCACGTCCAC
GCAGGTGAAAACTGGTTCCAGAATCGCAGGTACAAGTGCAAGAGACAGCGGCAGGATAAGTCCCTGGAG
CTGGGGACGCACGCGCCGCGCCACCCGCGCGTGGCAGTGGCGGTGCTCGTGCGGGACGGCAAGC
CGTGCGTCACGCCAGCGCACAAACCTACGGCTCGCCCTACGGCGTGGCGCGCGGCGCTACTCTACAA
CAGCTTCCCCGCCTACGGCTACGGGAACTCGGCCGCCGACGCGCTGCAGCCGCCGAGCCGCAGCAGCA
GCGGCGGCTTACAGCGGACGTACGGCTGCGCCTATCCGACCGGTGGCGGGTGGTGGCGGCGCAGCG
CCTCCGCGGCGACCACCGCATGCAACCCGCTGCAGCGCCACCGCGGTGGATCCTTTGTGAACGTGAG
CAACCTGGGAGGCTTCGGCAGCGCGCGGCGCAACCTTGCATCAAGGTGCTGCAGCCGGTCCGCG
TGCACGCAGGGGACTTTGCAGGGCATCAGGGCTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205563 representing NM_008699
 Red=Cloning site Green=Tags(s)

MMLPSPVTSTPFSVKDILNLEQQRHFHGAHLQAELEQHFHSAPCMLATAEGTQFSDAGEEDEEEEGEKL
 YLNSLAAAEHGDSGLCPQSYVHTVLRDACS GPKEQEEVV SERSQKSCQLKKSLEAAGDCKTSEDGERP
 KPRSRRKPRVLF SQAQVFELERRFKQRYLSAPEREHLASSLKL TSTQVKIWFQNRRYKCKRQRQDKSLE
 LGTHAPPPPPRRVAVPVLVRDGPVTPSAQTYGSPYGVGAGAYSNSFPAYGYGNSAAAAAAAAAAAAA
 AAAYSGSYGCAYPTGGGGGGGTASAATTAMQPACSATGGGSFVNVSNLGGFGSGGGAQPLHQAAAGSA
 CTQGLQGIRAW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

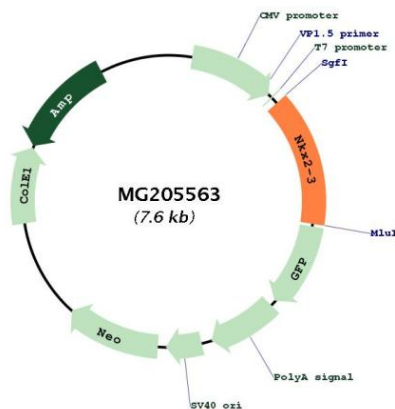
Locus ID: 18089

UniProt ID: [P97334](#)

Cytogenetics: 19 36.67 cM

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 MG205563