

Product datasheet for **MG224946**

Nkx2-4 (NM_023504) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2-4 (NM_023504) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nkx2-4
Synonyms:	1700001P03Rik; Nkx-2.4; tinman
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224946 representing NM_023504 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTCGTTGAGCCCCAAGCACACGACGCCCTTCTCCGTTTCCGACATCCTGAGCCCCATCGAGGAGACCT
ACAAGAAGTTCGGCGGCGTCATGGACGGTGCGCCGCCCGGCTGGGGGCGCCCCTGGGGGCGCTGCCTA
CCGCGCGCCACCGAGCGGCCCTCCTCGCAGGCGCGGCCGTGGCGGCGGCATGCAGCCGCCACGCC
ATGGCCGACACAACGCGGCGGCGGCAGCAGCGCGGCAGCGGCGCGGCCGCGGCCGCCACCTACC
ACATGCCTCCCGCGTCTCGCAGTTCGCCACAGCGCCATGGGCAGCTACTGCAACGGCGGCCTGGGCAA
CATGGGTGAGCTGCCCGCTACACGACGGCATGCGGGGCGGCGCGGCCGCCACCGGCTGGTAC
GGCGCCAACACGACCCGCGCTACTCGTCAATCTCCAGTTTCATGGGGCGTGGCGGGCGTGAACGTGG
CCGGCATGGGTTTCGTGACCGGCATCGCGGACGCCCAAGTCGTGGCACCGCTGCACGCGGCCGCC
GCGAAGGAAGCGCGAGTGCTTCTCGCAAGCGCAGGTCTACGAGTGGAGCGGCGCTTCAAGCAGCAG
AAGTACCTGTGGCGCCCGAGCGCGACCTGGCCAGCATGATCCACCTGACGCCACCGAGGTCAAGA
TCTGGTTCCAGAACCATCGCTACAAGATGAAGAGGCAGGCCAAGGACAAGGCGGCGCAGCAGTGAACA
GGAGGGCGGCTGGGCCCCCGCCGCTCCGCCGCCCGTCGCCGCGCCGCTGGCGGTACCGGTGCTG
GTGAAGGACGCAAGCCGTGCCAGAAGCGCGGCGACCCGACGCCCTGGCCAGGAGGCCAGCAGCCGC
AAGCCCCGACGCCCGCGCCAGAGCTCGAGGAGCTGTCGCCAGCCCGCCGCTCTGCATGGTCCCGGGG
CGGCTTAGCGGCCCTGGACGCGGCCACCGGGGACTACGGCGGAGCGTGCTCGGCCCAACCTGCTCTAT
GGCAGAACGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG224946 representing NM_023504
 Red=Cloning site Green=Tags(s)

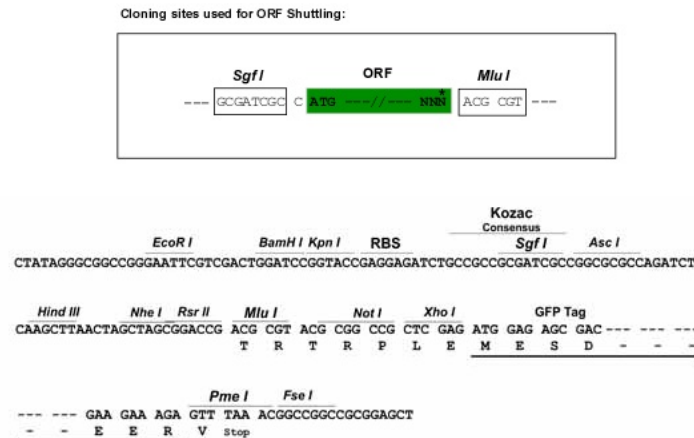
MSLSPKHTTFFSVSDILSPIEETYYKKFGGVMDGAPPGLGAPLGAAAYRAPPSGPSSQAAVAAGMQPPHA
 MAGHNAAAAAAAAAAAAAAAAATYHMPPGVSQFPHSAMGSCNGGLGNMGELPAYTDGMRGGAAAAATGWY
 GANTDPRYSSISRFGPSAGVNVAGMGLTGIADAAKSLAPLHAAAPRRKRRVLF SQAQVYELERRFKQQ
 KYLSAPEREHLASMIHLTPTQVKIWFQNHRYKMKRQAKDKAAQQLQEGGLGPPPPPPPPSPRRVAVPVL
 VKDGTKPCQNGAGTPTPGQGGQQPQAPTPAPELEELSPSPPALHGPGGGLAALDAATGDYGGGVLGANLLY
 GRTW

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_023504

ORF Size: 1062 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_023504.1](#), [NP_075993.1](#)

RefSeq Size: 1065 bp

RefSeq ORF: 1065 bp

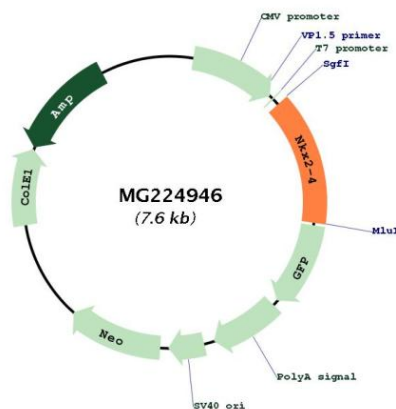
Locus ID: 228731

UniProt ID: [Q9EQM3](#)

Cytogenetics: 2 G2

Gene Summary: Probable transcription factor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224946