

Product datasheet for RC225527

Nkx2.4 (NKX2-4) (NM_033176) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2.4 (NKX2-4) (NM_033176) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nkx2.4
Synonyms:	NKX2.4; NKX2D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225527 representing NM_033176 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTTGAGCCAAAGCACACGACGCCCTTCTCCGTGTCGACATCCTGAGCCCCATCGAGGAGACCT
ACAAGAAGTTCAGCGGCATGGACGGCGCCACCCGGCTGGGGGCGCCCTGGGGCGCGGCCG
CTACCGCGCGCCACCTGGGCCCTCTCGCAGGCGGCGCCGTCGGGGCATGCAGCCTTCTCACGCC
ATGGCGGTCAACAACGCGGCGCCGCGGCGCGGCAGCAGCTGCGGGCGCGGCCCCACCTACC
ACATGCCGCCGCGTCTCGCAGTTCGCCACGGCCCATGGGCAGCTACTGCAACGGCGCCTGGGCAA
CATGGGGAGCTGCCCGCTACACGGACGGCATGCGGGCGGCGCGGCCACCGGCTGGTACGGCGCAAC
CCGGACCCACGCTACTCGTCAATCTCCAGTTTATGGGGCGTCCGGGGCGTGAATGTGGCCGGCATGG
GGTCGCTGACCGCATCGCGGACGCCAAGTCGCTGGGCCGCTGCACGGCGGGCGGCGGACGGCGC
TCCGCGAAGGAAGCGCGCTTCTTCTCGCAGGCGCAGGTCTACGAGCTGGAGCGGCGCTTAAGCAG
CAGAAGTACCTGTGCGGCCCGAGCGGACACCTGGCCAGCATGATCCACCTGACGCCCACGCAGGTCA
AGATCTGGTCCAGAACCACCGGTACAAGATGAAACGGCAGGCCAAGGACAAGGGCGCGCAGCAGTCA
GCAGGAGGGCGGCTGGGCCCGCGCCCTCCGCCCGTCCCCGCGCCGCTGGCGGTGCCTGTGCTG
GTCAAGGACGGCAAGCCGTGCCAGAACGGCGCCAGCACGCCACCCCGCCAGGCCGGTCCGACGCCG
CGGCCCGAGCCAGCACCTGAGCTGGAGGAGCTGTCGCCAGCCACCGCGCTGACAGGCCCGGGGG
CGGCTGGCGCCCTGGACGCGGCCCGGGGAGTACAGCGGCGGCTCCTGGGCGCAACCTGCTCTAT
GGCAGGACGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC225527 representing NM_033176
Red=Cloning site Green=Tags(s)

MSLSPKHTTFFSVSDILSPIEETYKKFSGAMDGAPPGLGAPLGAAAAAYRAPPDGPSSQAATVAGMQPSHA
 MAGHNAAAAAAAAAAAAAAAAATYHMPPGVSQFPHGAMGSYCNGGLGNMDELPAITDGMRGGAAATGWYGAN
 PDPYSSISRFMGPSAGVNVAGMGLTGIADAAKSLGPLHAAAAAAAAAPRRKRRVLF SQAQVYELEERRFKQ
 QKYL SAPEREHLASMIHL TPTQVKIWFQNHRYKMKRQAKDKAAQQLQEGGLGPPPPPPSPRRVAVPVL
 VKDGGKPCQNGASTPTPGQAGPQPPAPTPAPELEELSPSPPALHGPGGGLAALDAAAGEYSGGVLGANLLY
 GRTW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8034_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033176

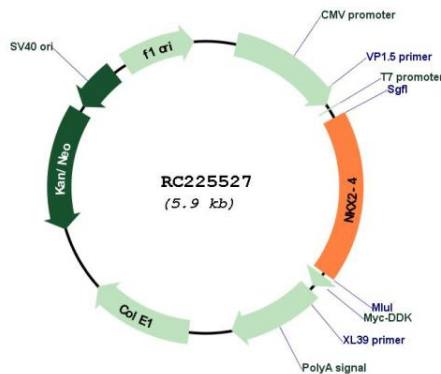
ORF Size: 1062 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_033176.2](#)
- RefSeq ORF:** 1065 bp
- Locus ID:** 644524
- UniProt ID:** [Q9H2Z4](#)
- Cytogenetics:** 20p11.22
- MW:** 36 kDa
- Gene Summary:** Probable transcription factor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC225527