

Product datasheet for **SC108072**

NKX2.3 (NKX2-3) (NM_145285) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKX2.3 (NKX2-3) (NM_145285) Human Untagged Clone
Tag:	Tag Free
Symbol:	NKX2.3
Synonyms:	CSX3; NK2.3; NKX2.3; NKX2C; NKX4-3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145285, the custom clone sequence may differ by one or more nucleotides

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ATGATGTTACCAAGCCCGGTACCTCCACCCCTTTCTCAGTCAAAGACATTTTGAATCTGGAGCAGCAGC
ACCAGCACTTCCATGGTGCACACTTGCAGGCGGACTTGGAGCACCACTTCCACTCTGCGCCCTGCATGCT
GGCCGCCGCTGAGGGGACGCAATTTTCTGACGGAGGGGAGGAGGACGAGGAAGACGAGGGCGAGAAATTG
TCCTATTTGAACTCACTAGCCGACGAGACGGCCACGGGGATTCAGGGCTGTGTCCCCAGGGCTATGTCC
ACACGGTCCTGCGAGACTCGTGCAGCGAGCCCAAGGAACATGAAGAGGAGCCCGAGGTCGTGAGGGACCG
GAGCCAAAAAAGCTGCCAGCTGAAGAAGTCTCTAGAGACGGCCGGAGACTGCAAGGCGGGGAGGAGAGC
GAGAGGCCGAAGCCACGCAGCCCGGAAGCCCGGGTCTTCTCGAAGCCAGGTCTTCGAGCTGG
AACGCAGGTTCAAGCAGCAGCGGTACCTGTCCGACCCGAGCGCGAGCACCTCGCCAGCAGCCTGAAGCT
CACATCCACTCAGGTGAAAATCTGGTTCCAGAATCGCAGGTACAAGTGCAAGAGACAGCGCAGGACAAG
TCTCTGGAGCTTGGCGCACACGCGCCCGCCCGCCGCGCGCGCTGGCTGTCCCGGTGCTGGTGCGGG
ACGGCAAGCCGTGCGTCACGCCAGCGCGCAGGCCTACGGCGCGCCCTACAGCGTGGGCGCCAGCGCCTA
CTCCTACAACAGCTTCCCGCCTACGGCTATGGAACTCGGCCGCGGCCCGCCCGCCCGCCCGCCCGCC
GCCGCAGCAGCGGGCCCTACAGCAGCAGCTATGGCTGTGCGTACCCGGCGGGCGCGCGCGCGCGCGG
GCGGGACCTCCGCGGCGACCACTGCCATGCAGCCCGCTGCAGCGCGGCCGGAGGCGGCCCTTTGTGAA
CGTGAGCAACCTAGGAGGCTTCGGCAGCGCGGCGAGCGCACAGCGTTGCACCAGGACTGCAGCCGGG
GCCGCTGCGCTCAGGGCACCTTGACAGGCATCCGGGCCTGGTAG
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5' Read Nucleotide Sequence: >OriGene 5' read for NM_145285 unedited
 GCACGAGCCCTNGAGATGTTACCAAGCCCGGTACCTCCACCCCTTTCTCAGTCAAAGAC
 ATTTTGAATCTGGAGCAGCAGCACCAGCACTTCCATGGTGCGCACTTGCAGGCGGACTTG
 GAGCACCACCTTCCACTCTGCGCCCTGCATGCTGGCCGAGCTGAGGGGACTCAATTTTCT
 GACGGAGGGGAGGAGGACGAGGAAGACGAGGGCGAGAAATTGCTATTTGAACTACTA
 GCCGCAGCAGACGGCCACGGGGATTGAGGGCTGTGTCCCAGGGCTATGTCCACACGGTC
 CTGCGAGACTCGTGCAGCGAGCCCAAGGAACATGAAGAGGAGCCGAGGTCTGAGGGAC
 CGGAGCCAAAAAAGCTGCCAGCTGAAGAAGTCTCTAGAGACGGCCGAGACTGCAAGGCG
 GCGGAGGAGAGCGAGAGGCCGAAGCCACGACGCCCGGAAGCCCGGGTCTCTTCTCG
 CAAGCCCAGGTCTTCGAGCTGGAACGCAGGTTCAAGCAGCAGCGGTACCTGTGCGCACCC
 GAGCGCGAGCACCTCGCCAGCAGCTGAAGCTCACATCCACTCAGGTGAAAATCTGGTTC
 CAGAATCGCAGGTACAAGTGCAAGAGACAGCGGCAGGACAAGTCTCTGGAGCTTGGCGCA
 CACGCGCCCCCGCCGCCCGCGCGCTGGCTGTCCCGGTGCTGGTGCAGGACGGCAAG
 CCGTGCCTCACGCCAGCGCGCAAGCCTACNGCGGCCCTACAGCGTGGGCGCCAGCGCC
 TACTN

3' Read Nucleotide Sequence: >OriGene 3' read for NM_145285 unedited
 GGATCGCTAACCGAACTCAGGTCTAGTTTTAAATCTTTTTTTTTTTTTTTTTTTTGGAA
 AATTGCACCTTGTATTGACTCCTGTAGTGTGTGGCAGCGGGTGTCTACACGGCGTGTG
 GTTATAGTTATATAGATAGATAGATAACATGTGCTGAATACAGAATACGAAACAGA
 AAGGAAACCCGGTAACACCTCCGGTGGTTCTCAGGTCTGAATTTGTTACAGCTCCCC
 CACCCCCAACTTTTGATCTCATTGGCTGGTTTTCTCGAAGAGTCTGCGTCCCCCGAC
 AATCCGGAGATCTGGACCGAGGTATCTGCTGCGGAGGGGAGACAGCTGCGAAACGAAATC
 GACTGTGCTATGCGCTCCAGGCCCGCAAAGGGGGCAGAGGATCGGTAGGGCCTGGAATT
 TCTCAAGCCACGACCCCATTTTTCTCTCTTCTGCTTTAATTTGTTACGTCCTTGGG
 CTCCCCGCAACGCTTCGCGGAGGCCGCGGAAAGGCAGAGGGAGAGAAGCCCTTCTCGCT
 TTGGAAGAACCAAGCGCGCCAGGGTCTAGCCTCCTGGTCTCCTCTCGCTGCCAGGGTC
 GGGGCCATCGTCTCCCGGCCAGCCGGCGTTTCTGCCTCAGAGACAGTCTTGGCGAC
 CGGGACCAGTCATCCTTCTCGCCCTGAGTCCCCTTCCCCAGCCTCGAGTGAGCTGCG
 ATCCGAAGCCCTGAGGAGCTAGACGTACATATTTTTTAACGAGGGGACCTGACCTTAGG
 TCCAGGCCCTTCTGAGCTTTAATCCCGCGGCCAGGCTGCGCTTGGGTGCCCGCCGG
 TTGACCCGCCCCCTCCCTACCAAGCCGGAATGCCTGGNAGGTGCCCTGGACGCCCGGCC
 CCGGGTTGCATACCCTGGTGCAACGGGTGTGCGCTGCCCGTTTGCCAACCTCCTAGGTG
 GTTAAGT

Restriction Sites: NotI-NotI

ACCN: NM_145285

Insert Size: 2150 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](#)

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_145285.1](#), [NP_660328.1](#)

RefSeq Size: 2117 bp

RefSeq ORF: 882 bp

Locus ID: 159296

UniProt ID: [Q8TAU0](#)

Cytogenetics: 10q24.2

Domains: homeobox

Protein Families: Transcription Factors

Gene Summary: This gene encodes a homeodomain-containing transcription factor. The encoded protein is a member of the NKX family of homeodomain transcription factors. Studies of similar proteins in mouse and rat have indicated a potential role in cellular differentiation.[provided by RefSeq, Mar 2010]