

Product datasheet for **SC303209**

Nkx2.2 (NKX2-2) (NM_002509) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2.2 (NKX2-2) (NM_002509) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nkx2.2
Synonyms:	NKX2.2; NKX2B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_002509 edited
 TGCGACATAAATTTTGGGGTCTCGAACCATGTCGCTGACCAACACAAAGACGGGGTTTTTC
 GGTC AAGGACATCTTAGACCTGCCGACACCAACGATGAGGAGGGCTCTGTGGCCGAAGG
 TCCGGAGGAAGAGAACGAGGGGCCGAGCCAGCCAAGAGGGCCGGCCGCTGGGGCAGGG
 CGCCCTGGACGCGGTGCAGAGCCTGCCCTGAAGAACCCCTTCTACGACAGCAGCGACAA
 CCCGTACACGCGCTGGCTGGCCAGCACCAGGGCCTTCAGTACTCCCTGCACGGTCTGGC
 TGCCGGGGCGCCCTCAGGACTCAAGCTCCAAGTCCCGGAGCCCTCGGCCGACGAGTC
 ACCGGACAATGACAAGGAGACCCCGGGCGGGGGGACCGCGCAAGAAGCGAAAGCG
 GCGAGTGTCTTTCTCAAGGCGCAGACCTACGAGCTGGAGCGGCGCTTTCGGCAGCAGCG
 GTACCTGTGGGCGCCGAGCGCAACACCTGGCCAGCCTCATCCGCTCACGCCACGCA
 GGTCAAGATCTGGTTCCAGAACCACCGCTACAAGATGAAGCGCGCCCGGGCCGAGAAAGG
 TATGGAGGTGACGCCCTGCCCTCGCCGCGCCGGTGGCCGTGCCGCTTTGGTCAAGGA
 CGGCAAACCATGTACGCGCTCAAAGCCAGGACCTGGCAGCCGCCACCTTCCAGGCGGG
 CATTCCCTTTTCTGCCTACAGCGCGCAGTGCCTGCAGCACATGCAGTACAACGCCAGTA
 CAGCTCGGCCAGCACCCCAAGTACCCGACAGCACACCCCTGGTCCAGGCCAGCAGTG
 GACTTGGTGAGCGCCGCCCAACGAGACTC

Restriction Sites: Please inquire

ACCN: NM_002509

Insert Size: 900 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_002509.2.
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:	<ol style="list-style-type: none"> 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:	<u>NM_002509.2</u> , <u>NP_002500.1</u>
RefSeq Size:	2092 bp
RefSeq ORF:	822 bp
Locus ID:	4821
UniProt ID:	<u>O95096</u>
Cytogenetics:	20p11.22
Protein Families:	Transcription Factors
Protein Pathways:	Maturity onset diabetes of the young
Gene Summary:	The protein encoded by this gene contains a homeobox domain and may be involved in the morphogenesis of the central nervous system. This gene is found on chromosome 20 near NKX2-4, and these two genes appear to be duplicated on chromosome 14 in the form of TITF1 and NKX2-8. The encoded protein is likely to be a nuclear transcription factor. [provided by RefSeq, Jul 2008]