

Product datasheet for SC325619

Nkx2.6 (NKX2-6) (NM_001136271) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2.6 (NKX2-6) (NM_001136271) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nkx2.6
Synonyms:	CSX2; CTHM; NKX2F; NKX4-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325619 representing NM_001136271. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCTGCTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGCTGCTGAGCCCCGTACCTCCACCCCTTCTCGGTCAAGGACATCCTGCGACTGGAGCGCGAGCGG
 AGCTGCCCCGGGCTTCGCCACATCCGCGGGTGCAGGAGAGCCCGAAAACTTTCACTACCTGAGAATG
 GACGCAGAGCCGCGAGGGTCAGAGGTTACAACGCTGGTGGCGGGCGGGTGACAGAAAGCTGGATGGT
 TCGGAGCCTCCTGGGGTCCCTGTGAGGCAGTCTTGGAGATGGACGCGGAACGGATGGGGAGCCACAG
 CCCGGCCTGAACGCGGCCTCGCCCTCGCGGGCGGGACCAGGGTGCCAGAGCGCGGCTTGGCAACAGC
 GGCAGACGCGTGGGGTGGCCGCTCGGAGCAGCCCAAGGCGCGCAACGAGGAAGCCGCGCTGCTC
 TTTTCGACGGCGCAGGTGCTGGCCCTGGAGCGGCGCTTAAGCAGCAGCGGTACCTGTACGCGCCCGAG
 CGCGAGACCTGGCCAGCGCGCTGCAGCTCACGTCCACGAGGTCAAGATCTGGTTCCAGAACCAGCGC
 TACAAATGCAAGAGACAGCGCCAGGACAAGTCGCTGGAAGTGGCTGGCCACCCTCTAACGCCGCGCCGA
 GTAGCTGTGCCCGTCTGGTGCAGATGGCAAGCCCTGCCTGGGCCCCGGGCCGCGCACCTGCCTTC
 CCCAGCCCCTACAGTGCAGCAGTGTGCCCTACTCTTGCTACGGAGGCTACAGCGGAGCACCTACGGC
 GCAGGCTACGGCACCTGCTACGCGGGCGCGCCCTCGGGTCTGCGCCACACACCACTGGCCAGCGCG
 GGCTTCGGACACGGTGGCCAGATGCCACCCCGCAGGGCCATCTGGCAGCCACGTCAGGGTGTGAGG
 GCCTGGTGA
 ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001136271
Insert Size:	906 bp


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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_001136271.2
RefSeq Size:	906 bp
RefSeq ORF:	906 bp
Locus ID:	137814
UniProt ID:	A6NCS4
Cytogenetics:	8p21.2
MW:	32.1 kDa
Gene Summary:	This gene encodes a homeobox-containing protein that belongs to the NK-2 homeobox family. This protein is a vertebrate homolog of Drosophila homeobox-containing protein called 'tinman', which has been shown to be essential for development of the heart-like dorsal vessel. In conjunction with related gene, NKX2-5, this gene may play a role in both pharyngeal and cardiac embryonic development. Mutations in this gene are associated with persistent truncus arteriosus.[provided by RefSeq, Aug 2011]