

Product datasheet for **SC326721**

Nkx2.5 (NKX2-5) (NM_001166176) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2.5 (NKX2-5) (NM_001166176) Human Untagged Clone
Tag:	Tag Free
Symbol:	NKX2-5
Synonyms:	CHNG5; CSX; CSX1; HLHS2; NKX2.5; NKX2E; NKX4-1; VSD3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001166176, the custom clone sequence may differ by one or more nucleotides ATGTTCCCAGCCCTGCTCTCACGCCACGCCCTTCTCAGTCAAAGACATCCTAAACCTG GAACAGCAGCAGCGCAGCCTGGCTGCCGCGGAGAGCTCTGCCCGCCTGGAGGCGACC CTGGCGCCTCCTCCTGCATGCTGGCCGCTTCAAGCCAGAGGCCTACGCTGGGCCGAG GCGGCTGCCCGGGCCTCCAGAGCTGCGCGCAGAGCTGGGCCGCGCCTTACCCGGCC AAGTGTGCGTCTGCCTTCCCGCCGCCCCGCCTTCTATCCACGTGCCTACAGCGACCCC GACCCAGCCAAGACCCTAGAGCCGAAAAGAAAGGGTGTGAACTGCCCGAGGGCAGAGA CCTCCCGTTTTGTTCTCCAGCGCCTTGAGCCAGCCTGACTTTCTACAAATGCTGAGTGAG ACGTGTCGGTGGCTCCCAGTGCCTTGGCAGAG
Restriction Sites:	Please inquire
ACCN:	NM_001166176
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).



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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_001166176.1](#), [NP_001159648.1](#)

RefSeq Size: 1924 bp

RefSeq ORF: 456 bp

Locus ID: 1482

UniProt ID: [P52952](#)

Cytogenetics: 5q35.1

Protein Families: Transcription Factors

Gene Summary: This gene encodes a homeobox-containing transcription factor. This transcription factor functions in heart formation and development. Mutations in this gene cause atrial septal defect with atrioventricular conduction defect, and also tetralogy of Fallot, which are both heart malformation diseases. Mutations in this gene can also cause congenital hypothyroidism non-goitrous type 5, a non-autoimmune condition. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]
Transcript Variant: This variant (3) differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (3) has a distinct C-terminus and is shorter than isoform 1.