

Product datasheet for **SC122678**

Nkx2.5 (NKX2-5) (NM_004387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkx2.5 (NKX2-5) (NM_004387) 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)



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Fully Sequenced ORF: >OriGene sequence for NM_004387 edited
 GACGGGTGCGCGGGCGGGCGGGCACCATGCAGGGAAGCTGCCAGGGCCGTGGGCAGC
 GCCGCTTTCTGCCGCCACCTGGCGCTGTGAGACTGGCGCTGCCACCATGTTCCCCAGCC
 CTGCTCTACGCCACGCCCTTCTCAGTCAAAGACATCCTAAACCTGGAACAGCAGCAGC
 GCAGCCTGGTGCCGCCGAGAGCTCTCTGCCCGCTGGAGGCGACCCTGGCGCCCTCT
 CCTGCATGCTGGCCGCTTCAAGCCAGAGGCCTACGCTGGGCCGAGGCGGCTGCGCCGG
 GCCTCCAGAGCTGCGCGCAGAGCTGGGCCGCGCCTTACCGGCCAAGTGTGCGTCTG
 CCTTTCCGCGCCCGCCTTCTATCCAGTGCCTACAGCGACCCGACCCAGCCAAGG
 ACCCTAGAGCCGAAAAGAAAGAGCTGTGCGCGCTGCAGAAGGCGGTGGAGCTGGAGAAGA
 CAGAGGCGGACAAACGCGGAGCGGCCCGGGCGCGACGGCGGAGGAAGCCGCGCTGCTCT
 TCTCGCAGGCGCAGGTCTATGAGCTGGAGCGGCGCTTCAAGCAGCAGCGGTACCTGTCGG
 CCCCCGAACGCGACCAGCTGGCCAGCGTCTGAAACTCACGTCCACGCAGGTCAAGATCT
 GGTTCAGAACCGGCGCTACAAGTGCAAGCGGCAGCGGCAGGACCAGACTCTGGAGCTGG
 TGGGGTGCCTCCCGCCGCGCCGCGCTGCCCGCAGGATCGCGGTGCCAGTGTGGTGC
 GCGATGGCAAGCCATGCCTAGGGGACTCGGCGCCCTACGCGCCTGCCTACGGCGTGGCC
 TCAATCCCTACGTTATAACGCCTACCCCGCCTATCCGGTTACGGCGGCGCGCCCTGCA
 GCCTGGCTACAGCTGCACTGCCGCTTACCCCGCGGGCCTTCCCAGCGCAGCCGGCCA
 CTGCCCGCCCAACAACAACCTTCGTGAACCTTCGGCGTCCGGGACTTGAATGCGGTTCA
 GCCCGGGATTCCGCAGAGCAACTCGGGAGTGTCCACGCTGCATGGTATCCGAGCCTGGT
 AGGGAAGGGACCCGCGTGGCGCGACCCTGACCGATCCCACCTCAACAGCTCCCTGACTCT
 CGGGGGGAGAAGGGGCTCCCAACATGACCCTGAGTCCCCTGGATTTTGCATTCACCTCTG
 CGGAGACCTAGGAACTTTTCTGTCCCACGCGCTTTGTTCTTGCACACGGGAGAGTTTTG
 TGCGGGGATTAATGCAGCGTGAATGAGTGATCCTGCAGCCTGGTGTCTTAGCTGTCC
 CCAGGAGTGCCTCCGAGAGTCCATGGGCACCCCGGTTGGAACCTGGGACTGAGCTCGGG
 CACGCAGGGCCTGAGATCTGGCCGCCATTCCGCGAGCCAGGGCCGGGCGCCCGGCCTT
 TGCTATCTCGCGTCCGCCGCCACGCACCCACCCGATTTATGTTTTTACCTATTGCTG
 TAAGAAATGACGATCCCTTCCCATTAAGAGAGTGCGTTGAAAAAAAAAAAAAAAAAAAA
 AA
 AAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_004387 unedited
 NGCGGTTCAAGTTTTGTAATACGACTTATTATAGGGCGGCCGCGATTCCCGGGATGACGG
 GTGCGCGGGCGGGCGGGCACCATGCAGGGAAGCTGCCAGGGCCGTGGGCAGCGCCGC
 TTTCTGCCGCCACCTGGCGCTGTGAGACTGGCGCTGCCACCATGTTCCCCAGCCCTGCT
 CTCACGCCACGCCCTTCTCAGTCAAAGACATCCTAAACCTGGAACAGCAGCAGCGCAGC
 CTGGCTGGCCGCCGAGAGCTCTCTGCCCGCTGGAGGCGACCCTGGCGCCCTCTCTCTGC
 ATGCTGGCCGCTTCAAGCCAGAGGCCTACGCTGGGCCGAGGCGGCTGCGCCGGCCTC
 CCAGAGCTGCGCGCAGAGCTGGGCCGCGCCTTACCGGCCAAGTGTGCGTCTGCCTTT
 CCCGCCGCCCGCCTTCTATCCAGTGCCTACAGCGACCCGACCCAGCCAAGGACCCT
 AGAGCCGAAAAGAAAGAGCTGTGCGCGCTGCAGAAGGCGGTGGAGCTGGAGAAGACAGAG
 GCGGACAAACGCGGAGCGGCCCGGGCGCGACGGCGGAGGAAGCCGCGCTGCTCTCTCG
 CAGGCGCANGTCTATGAGCTGGAGCGGCGCTTCAAGCAGCAGCGGTACCTGTCGGCCCC
 GAACGCGACCAGCTGGCCAGCGTCTGAAACTCACGTCCACGCAGGTCAAGATCTGGTTC
 CAGAACC CGCTANCAGTGCAAGCGGCAGCGGCAGGACCAGACTCTGGAGCTGGGGGG
 CTGCCCCGNCGGCGGGCGCCTGCCGNAGATCGCGGTGCAGTGTGTGCGGATGGCAG
 CCATGCCTAGGGACTCGGCGCTACCGCCTGCTACGCGTGGGCCCTCAATCCTACG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004387 unedited GGACATTCTTCCCCTTTATAGGGNAAGGGTTCCGTNCATTTCTTACAGCAATAGGGTAAA AACATAAATACGGGTGGGTGCGTGGGCGGGCGACGGCGAAGAAGCAAAGGCCCGGGCGCC CGGCCCTGGCTCGCGGAATGGGCGGCCAGATCTCAGGCCCTGCGTGCCCGAGCTCAGTCC CAGTTCCAACCGGGGTGCCCATGGACTCTCGGAGGGCACTCTGGGGGGACAGCTAAGA CACCAGGCTGCAGGATCACTCATTGCACGCTGCATAATCGCCGCCACAACTCTCCCGTG CGCAAGAACAACGCGCGTGGGACAGAAAAGTTCTAGGTCTCCGCAGGAGTGAATGCA AAATCCAGGGGACTCAGGGTCATGTTGGGAGCCCTTCTCCCGGAGAGTCAGGGAGCT GTTGAGGTGGGATCGGTAGGGTCGCGCCACGCGGGTCCCTTCCCTACCGGCTCGGATA CCATGCAGCGTGGACTCCCGAGTTGCTCTGCGGAATCCCGGGGCTCTGAACCGCATT AAGTCCCCGACGCCGAAGTTCACGAAGTTGTTGTTGGCGCGGCAGTGGCCGGCTGCGCT GGGGAAGGCCCGGGTAAGCGGCAGTGCAGCTGTAGCCAGGGCTGCAGGCCGCGCCG CCGTAACCCGGATAGGCGGGGTAGGCGTTATAACCGTAGGGATTGAGGCCACGCCGTAA GCAGGCGCGTAGGCGCCGAGTCCCTAGGCATGGCTTGCATCGCGCACAACTGGCA CCGCGATCTGCGCAAGCGGCCCGCCGGCGGGCAACCCCCCGCTCCAGAATCTG GTCTTGGCGCTGCGGCTTACTGTACGCCGGTCTGGACCAGATCTTGACCCGCGTGG ACCTGAATTTAACAACTGGCCACTTGGTG
Restriction Sites:	Please inquire
ACCN:	NM_004387
Insert Size:	1600 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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004387.2 , NP_004378.1
RefSeq Size:	1585 bp
RefSeq ORF:	975 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 (1) represents the shortest transcript but encodes the longest isoform (1).