

# Recombinant Full Length Human NKX2-5 Protein, GST-tagged

Cat. No. NKX2-5-6703HF Lot. No. (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human NKX2-5 full-length ORF ( AAH25711, 1 a.a. - 324 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 324 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>Homeobox-containing genes play critical roles in regulating tissue-specific gene expression essential for tissue differentiation, as well as determining the temporal and spatial patterns of development (Shiojima et al., 1995 [PubMed 7665173]). It has been demonstrated that a Drosophila homeobox-containing gene called tinman is expressed in the developing dorsal vessel and in the equivalent of the vertebrate heart. Mutations in tinman result in loss of heart formation in the embryo, suggesting that tinman is essential for Drosophila heart formation. Furthermore, abundant expression of Csx, the presumptive mouse homolog of tinman, is observed only in the heart from the time of cardiac differentiation. CSX, the human homolog of murine Csx, has a homeodomain sequence identical to that of Csx and is expressed only in the heart, again suggesting that CSX plays an important role in human heart formation.[supplied by OMIM</p> |
| <b>Molecular Mass</b>   | 61.38 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MFPSPALTPPFSVKDILNLEQQQRSLAAAGELSARLEATLAPSSCMLAAAFKPEAYA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GPEAAAPGLPELRAELGRAPSPAKCASAFPAAPAFYPRAYSDDPAKDPRAEKEL  
 CALQKAVELEKTEADNAERPRARRRRKPRVLFSQAQVYELERRFKQQRYSAPERD  
 QLASVLKLTSTQVKIWFQNRRYKCKRQRQDQTLELVGLPPPPPPARRIAVPVLVRD  
 GKPCLGDSAPYAPAYGVGLNPYGYNAYPAYPGYGGAACSPGYSCTAAYPAGPSPA  
 QPATAAANNFVNFVGVGDLNAVQSPGIPQSNSGVSTLHGIRAW

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes** Best use within three months from the date of receipt of this protein.

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [NKX2-5 NK2 homeobox 5 \[ Homo sapiens \]](#)

**Official Symbol** [NKX2-5](#)

**Synonyms** NKX2-5; NK2 homeobox 5; cardiac specific homeo box , CSX, NK2 transcription factor related, locus 5 (Drosophila) , NKX2E; homeobox protein Nkx-2.5; CSX1; NKX2.5; NKX4 1; tinman paralog (Drosophila); tinman paralog; homeobox protein CSX; cardiac-specific homeobox 1; homeobox protein NK-2 homolog E; NK2 transcription factor related, locus 5; CSX; VSD3; CHNG5; HLHS2; NKX2E; NKX4-1; FLJ52202; FLJ97166; FLJ97195; FLJ97197; FLJ99536;

**Gene ID** [1482](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



|                       |              |
|-----------------------|--------------|
| <b>mRNA Refseq</b>    | NM_001166175 |
| <b>Protein Refseq</b> | NP_001159647 |
| <b>MIM</b>            | 600584       |
| <b>UniProt ID</b>     | P52952       |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA