

## Recombinant Human NKX2-6 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** NKX2-6-3578H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | NKX2 MS Standard C13 and N15-labeled recombinant protein (NP_001129743) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 23.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MDAERMGEPQPGLNAASPLGGGTRVPERGVGNSGDSVRGGRSEQPKARQRRKP<br>RVLFSQAQVLALERRFKQQRYSAPERHLSALQLTSTQVKIWFQNRRYKCKRQR<br>QDKSLELAGHPLTPRRVAVPVLVRDGKPCLGPGGAPAFPSPYSAAVSPYSCYGGY<br>SGAPYGAGYGTCYAGAPSGPAPHTPLASAGFGHGGQNATPQGHLAATLQGVRAW<br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                              |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                         |

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

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

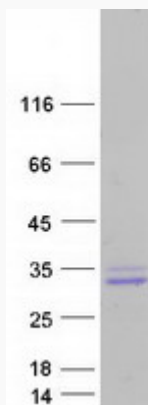
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | Stable for 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                                                                              |
| <b>Storage</b>          | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                             |
| <b>Concentration</b>    | 50 µg/mL as determined by BCA                                                                                                                                                                                                                                                           |
| <b>Storage Buffer</b>   | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                         |
| <b>Gene Name</b>        | NKX2-6 NK2 homeobox 6 [ Homo sapiens (human) ]                                                                                                                                                                                                                                          |
| <b>Official Symbol</b>  | NKX2-6                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>         | NKX2-6; NK2 homeobox 6; NK2 transcription factor related, locus 6 (Drosophila); homeobox protein Nkx-2.6; CSX2; NKX4 2; tinman paralog (Drosophila); tinman paralog; homeobox protein NKX2.6; homeobox protein NK2 homolog F; NK2 transcription factor related, locus 6; NKX2F; NKX4-2; |
| <b>Gene ID</b>          | 137814                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>      | NM_001136271                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>   | NP_001129743                                                                                                                                                                                                                                                                            |
| <b>MIM</b>              | 611770                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>       | A6NCS4                                                                                                                                                                                                                                                                                  |

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**SDS-PAGE**

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