# Recombinant Mouse Nkx3-1 Protein, Myc/DDK-tagged

**Cat. No.** Nkx3-1-4427M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Purified recombinant protein of mouse full-length NK3 homeobox 1 (Nkx3-1), with C-terminal MYC/DDK tag, expressed in HEK293T cells. |
| **Species** | Mouse |
| **Source** | HEK293 |
| **Description** | Transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor. Plays an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. Acts as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to suppress growth and tumorigenicity of prostate carcinoma cells. Plays a role in the formation of minor salivary glands (particularly palatine and lingual glands). Essential for appropriate differentiation and secretory function of the bulbourethral gland. |
| **Molecular Mass** | 26.8 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade after receiving vials. |

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| **Concentration** | >50 μg/mL as determined by microplate BCA method |
| **Storage Buffer** | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |

## GENE INFORMATION

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| **Gene Name** | Nkx3-1 NK3 homeobox 1 [ Mus musculus (house mouse) ] |
| **Official Symbol** | Nkx3-1 |
| **Synonyms** | NKX3-1; NK-3 transcription factor, locus 1 (Drosophila); homeobox protein Nkx-3.1; homeobox protein NK-3 homolog A; Drosophila NK-3 transcription factor, locus 1; Bax; NKX3A; NKX3.1; Nkx-3.1; bagpipe |
| **Gene ID** | 18095 |
| **mRNA Refseq** | NM_010921 |
| **Protein Refseq** | NP_035051 |
| **UniProt ID** | P97436 |

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