Recombinant Full Length Human NKX2-5 Protein, C-Flag-tagged

Cat. No. NKX2-5-1742HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NKX2-5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-324 a.a.
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	34.7 kDa
AA Sequence	MFPSPALTPTPFSVKDILNLEQQQRSLAAAGELSARLEATLAPSSCMLAAFKPEAYA GPEAAAPGLPELR AELGRAPSPAKCASAFPAAPAFYPRAYSDPDPAKDPRAEKKEL CALQKAVELEKTEADNAERPRARRRRK PRVLFSQAQVYELERRFKQQRYLSAPER DQLASVLKLTSTQVKIWFQNRRYKCKRQRQDQTLELVGLPPP PPPPARRIAVPVLV

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

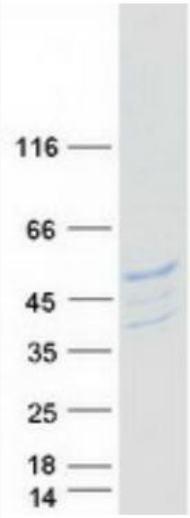
	RDGKPCLGDSAPYAPAYGVGLNPYGYNAYPAYPGYGGAACSPGYSCTAAYPAGPSP AQPATAAANNNFVNFGVGDLNAVQSPGIPQSNSGVSTLHGIRAWTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transcription Factors
Full Length	Full L.

GENE INFORMATION

Gene Name	NKX2-5 NK2 homeobox 5 [Homo sapiens (human)]
Official Symbol	NKX2-5
Synonyms	CSX; CSX1; VSD3; CHNG5; HLHS2; NKX2E; NKX2.5; NKX4-1
Gene ID	1482

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mRNA Refseq	NM_004387.4
Protein Refseq	NP_004378.1
MIM	600584
UniProt ID	P52952



Coomassie blue staining of purified NKX2-5 protein.

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