

# Recombinant Human CDX1 Protein, T7-His-TEV-tagged

**Cat. No.** CDX1-488H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Full-length human CDX1 cDNA (264 aa) was constructed with codon optimization using gene synthesis technology and expressed with a small T7-His-TEV cleavage site Tag (31aa) fusion at its N-terminal. It was expressed in E. coli as inclusion bodies.                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | This gene is a member of the caudal-related homeobox transcription factor gene family. The encoded DNA-binding protein regulates intestine-specific gene expression and enterocyte differentiation. It has been shown to induce expression of the intestinal alkaline phosphatase gene, and inhibit beta-catenin/T-cell factor transcriptional activity. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 31.4 kD                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MASMTGGQQMGRGHHHHHHENLYFQGGEFGSYVG YVLDKDSPVYPGPAPASL<br>GLGPQAYGPPAPPPAPPQYPDFSSYSHVEPAPAPPTAWGAPFPAPKDDWAAAYGP<br>GPAAPAASPASLAFGPPPDFSPVPAPPGPGPGLLAQPLGGPGTPSSPGAQRPTPY<br>EWMRRSVAAGGGGGSGKTRTKDKYRVVYTDHQRLELEKEFHYSRYITIRRKSELAA<br>NLGLTERQVKIWFQNRRAKERKVNKKKQQQQPPQPPMAHDITATPAGPSLGGLC<br>PSNTSLLATSSPMPVKEEFLP                               |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 93% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>   | <ol style="list-style-type: none"> <li>1. May be used for in vitro CDX1 mediated gene transcription regulation study in activated KRAS-mediated transcriptional activation of PRKD1 pathway for intestinal cells by intracellular delivery of this recombinant CDX1 protein with protein delivery reagent such as ProFectin reagent kit.</li> <li>2. May be used for mapping CDX1 protein-protein interaction.</li> <li>3. May be used as specific substrate protein for kinase, and ubiquitin (Sumo pathway) related enzyme functional screening assays.</li> <li>4. Potential biomarker protein for colorectal cancer or gastric cancer diagnosis.</li> <li>5. As native human CDX1 antigen for specific antibody production.</li> </ol> |
| <b>Storage</b>        | Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least two weeks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Concentration</b>  | 0.5 mg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b> | 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose, DTT and others.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CDX1 caudal type homeobox 1 [ Homo sapiens (human) ]                                                                                                                                                               |
| <b>Official Symbol</b> | CDX1                                                                                                                                                                                                               |
| <b>Synonyms</b>        | CDX1; caudal type homeobox 1; homeobox protein CDX-1; caudal type homeo box transcription factor 1; caudal type homeobox transcription factor 1; caudal-type homeobox protein 1; caudal-type homeobox protein CDX1 |
| <b>Gene ID</b>         | 1044                                                                                                                                                                                                               |

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|----------------|-----------|
| mRNA Refseq    | NM_001804 |
| Protein Refseq | NP_001795 |
| MIM            | 600746    |
| UniProt ID     | P47902    |

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