

# Recombinant Full Length Human NEUROD1 Protein, C-Flag-tagged

**Cat. No.** NEUROD1-389HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human NEUROD1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | This gene encodes a member of the NeuroD family of basic helix-loop-helix (bHLH) transcription factors. The protein forms heterodimers with other bHLH proteins and activates transcription of genes that contain a specific DNA sequence known as the E-box. It regulates expression of the insulin gene, and mutations in this gene result in type II diabetes mellitus.               |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 39.7 kDa                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MTKSYSESGLMGEPQPQGPSPWTDECLSSQDEEHEADKKEDDLEAMNAEEDSLR<br>NGGEEDEDEDELEEEE EEEEEDDQKPKRRGPKKKKMTKARLERFKLRRMKANA<br>RERNRMHGLNAALDNLKVVPCYSKTQKLSKI ETLRLAKNYIWALSEILRSGKSPDL<br>VSFVQTLCKGLSQPTTNLVAGCLQLNPRTFLPEQNQDMPPHLPTA SASFPVHPYSY<br>QSPGLPSPPYGTMDSSHVFHVKPPPHAYSAALEPFFESPLTDCTSPSFDGPLSPPL<br>SIN GNFSFKHEPSAEFEKNYAFTMHYPAATLAGAQSHGSIFSGTAAPRCEIPIDNIMS<br>FDSHSHHERVMSAQL |

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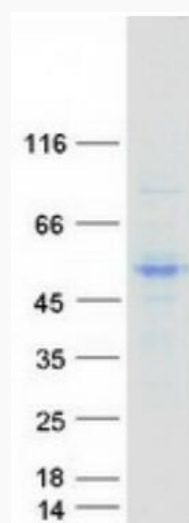
|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|                         | NAIFHDTRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                         |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors                                  |
| <b>Protein Pathways</b> | Maturity onset diabetes of the young                                                                                                          |
| <b>Full Length</b>      | Full L.                                                                                                                                       |
| <b>GENE INFORMATION</b> |                                                                                                                                               |
| <b>Gene Name</b>        | NEUROD1 neuronal differentiation 1 [ Homo sapiens (human) ]                                                                                   |
| <b>Official Symbol</b>  | NEUROD1                                                                                                                                       |
| <b>Synonyms</b>         | T2D; BETA2; BHF-1; MODY6; NEUROD; bHLHa3                                                                                                      |
| <b>Gene ID</b>          | 4760                                                                                                                                          |

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|                       |             |
|-----------------------|-------------|
| <b>mRNA Refseq</b>    | NM_002500.5 |
| <b>Protein Refseq</b> | NP_002491.3 |
| <b>MIM</b>            | 601724      |
| <b>UniProt ID</b>     | Q13562      |



Coomassie blue staining of purified NEUROD1 protein.

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