

## Recombinant Human DLX3

**Cat. No.** DLX3-26675TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human DLX3 with N terminal proprietary tag, predicted mwt: 57.31 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 287 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>Many vertebrate homeo box-containing genes have been identified on the basis of their sequence similarity with Drosophila developmental genes. Members of the Dlx gene family contain a homeobox that is related to that of Distal-less (Dll), a gene expressed in the head and limbs of the developing fruit fly. The Distal-less (Dlx) family of genes comprises at least 6 different members, DLX1-DLX6. Trichodontoosseous syndrome (TDO), an autosomal dominant condition, has been correlated with DLX3 gene mutation. This gene is located in a tail-to-tail configuration with another member of the gene family on the long arm of chromosome 17. Mutations in this gene have been associated with the autosomal dominant conditions trichodontoosseous syndrome and amelogenesis imperfecta with taurodontism.</p> |
| <b>Molecular Weight</b> | 57.310kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

 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>Storage buffer</b>           | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                   |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                               |
| <b>Sequences of amino acids</b> | MSGSFDRKLSSILTDISSSLSCHAGSKDSPTLPESVTDL GYYSAPQHDYYSGQPY<br>GQTVNPTYHHQFNLNGLAGTGAY SPKSEYTYGASYRQYGAYREQPLPAQDPVSV<br>KEEPEAEVR MVNGKPKKVRKPRTIYSSYQLAALQRRFQKAQYLALPERA ELAAQL<br>GLTQTQVKIWFQNRRSKFKKLYKNGEVPLEHSPN NSDSMACNSPPSPALWDTSSH<br>STPAPARSQLPPPLPYSAS PSYLDPTNSWYHAQNLSGPHLQQPPQPATLHHAS<br>PGPP PNP GAVY |
| <b>Sequence Similarities</b>    | Belongs to the distal-less homeobox family.Contains 1 homeobox DNA-binding domain.                                                                                                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DLX3 distal-less homeobox 3 [ Homo sapiens ]                                   |
| <b>Official Symbol</b> | DLX3                                                                           |
| <b>Synonyms</b>        | DLX3; distal-less homeobox 3; distal less homeo box 3; homeobox protein DLX-3; |
| <b>Gene ID</b>         | 1747                                                                           |
| <b>mRNA Refseq</b>     | NM_005220                                                                      |
| <b>Protein Refseq</b>  | NP_005211                                                                      |
| <b>MIM</b>             | 600525                                                                         |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Uniprot ID</b>          | O60479                                                                                                                      |
| <b>Chromosome Location</b> | 17q21.33                                                                                                                    |
| <b>Function</b>            | sequence-specific DNA binding transcription factor activity; transcription regulatory region sequence-specific DNA binding; |

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