

## Recombinant Human OTX1

**Cat. No.** OTX1-30526TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment corresponding to amino acids 10-116 of Human Otx1 with an N terminal proprietary tag; Predicted MWt 37.4 kDa.                                                                                                                                                                                                                                                                                     |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>      | 107 amino acids                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>        | This gene encodes a member of the bicoid sub-family of homeodomain-containing transcription factors. The encoded protein acts as a transcription factor and may play a role in brain and sensory organ development. A similar protein in mouse is required for proper brain and sensory organ development and can cause epilepsy. Alternate splicing results in two transcript variants that encoded the same protein. |
| <b>Molecular Weight</b>   | 37.400kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Tissue specificity</b> | Expressed in brain.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>             | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage buffer</b>     | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                                                                  |

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|                                 |                                                                                                              |
|---------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                    |
| <b>Sequences of amino acids</b> | YGMNGLGLAGPAMDLLHPSVGYPATPRKQRRERTTFTRSQ LDVLEALFAKTRYPDIFMREEVALKINLPESRVQVWFKNR RAKCRQQQSGSGTKSRPAKKKSSPVR |
| <b>Sequence Similarities</b>    | Belongs to the paired homeobox family. Bicoid subfamily. Contains 1 homeobox DNA-binding domain.             |

## GENE INFORMATION

|                            |                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | OTX1 orthodenticle homeobox 1 [ Homo sapiens ]                                                                                      |
| <b>Official Symbol</b>     | OTX1                                                                                                                                |
| <b>Synonyms</b>            | OTX1; orthodenticle homeobox 1; orthodenticle (Drosophila) homolog 1 , orthodenticle homolog 1 (Drosophila); homeobox protein OTX1; |
| <b>Gene ID</b>             | 5013                                                                                                                                |
| <b>mRNA Refseq</b>         | NM_001199770                                                                                                                        |
| <b>Protein Refseq</b>      | NP_001186699                                                                                                                        |
| <b>MIM</b>                 | 600036                                                                                                                              |
| <b>Uniprot ID</b>          | P32242                                                                                                                              |
| <b>Chromosome Location</b> | 2p15                                                                                                                                |
| <b>Function</b>            | sequence-specific DNA binding; sequence-specific DNA binding transcription factor                                                   |

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