# Recombinant Human OTX2 Protein, His-tagged

**Cat. No.** OTX2-25H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human OTX2 fused with His tag at N-terminal was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | This gene encodes a member of the bicoid subfamily of homeodomain-containing transcription factors. The encoded protein acts as a transcription factor and plays a role in brain, craniofacial, and sensory organ development. The encoded protein also influences the proliferation and differentiation of dopaminergic neuronal progenitor cells during mitosis. Mutations in this gene cause syndromic microphthalmia 5 (MCOPS5) and combined pituitary hormone deficiency 6 (CPHD6). This gene is also suspected of having an oncogenic role in medulloblastoma. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Pseudogenes of this gene are known to exist on chromosomes two and nine. |
| **Form** | 25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl. |
| **Molecular Mass** | 31.6 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Storage** | Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions. |

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| **Concentration** | >50 ug/mL as determined by microplate BCA method. |

## GENE INFORMATION

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| **Gene Name** | OTX2 orthodenticle homeobox 2 [ Homo sapiens ] |
| **Official Symbol** | OTX2 |
| **Synonyms** | OTX2; orthodenticle homeobox 2; orthodenticle homolog 2 (Drosophila); homeobox protein OTX2; orthodenticle homolog 2; CPHD6; MCOPS5; MGC45000 |
| **Gene ID** | 5015 |
| **mRNA Refseq** | NM_021728 |
| **Protein Refseq** | NP_068374 |
| **MIM** | 600037 |
| **UniProt ID** | P32243 |

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