

## Recombinant Human PAX6

**Cat. No.** PAX6-130H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human Pax6 fragment (AA 1-209) was expressed in E. coli and purified using IMAC column purification.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-209 a.a.
<b>Description</b>	Pax6 is the best described member of the paired box (Pax) family of genes encoding tissue-specific transcription factors. The Pax6 protein contains paired box and homeobox domains with DNA-binding activities, and a Pro/Ser/Thr-rich C-terminal domain with transactivation function. Pax6 is a transcription regulator important in the development of the eyes and other sensory organs, the nervous system, and other homologous tissues derived from the ectoderm. Pancreatic development also depends on Pax6, and Pax6 is used as a marker for pancreatic endoderm when inducing differentiation of stem cells.
<b>Form</b>	500 g/ml (determined by A280) in hs-PBS (1.5 mM KH <sub>2</sub> PO <sub>4</sub> , 8.1 mM Na <sub>2</sub> HPO <sub>4</sub> , 500 mM NaCl, 2.7 mM KCl, pH 7.4)Preservative: none
<b>Molecular Mass</b>	22.8 kDa (AA 1-209).
<b>Purity</b>	>90% by SDS-PAGE

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**Storage** Store at -80 °C. Avoid multiple freeze-thaws.

## GENE INFORMATION

**Gene Name** PAX6 paired box 6 [ Homo sapiens ]

**Official Symbol** PAX6

**Synonyms** PAX6; paired box 6; AN2, paired box gene 6 (aniridia, keratitis); paired box protein Pax-6; AN; aniridia; keratitis; D11S812E; WAGR; oculorhombin; aniridia type II protein; paired box homeotic gene-6; AN2; MGDA; MGC17209;

**Gene ID** 5080

**mRNA Refseq** NM\_000280

**Protein Refseq** NP\_000271

**MIM** 607108

**UniProt ID** P26367

**Chromosome Location** 11p13

**Pathway** CDC42 signaling events, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Incretin Synthesis, Secretion, and Inactivation, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Metabolism, organism-specific biosystem;

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**Function**

DNA binding; R-SMAD binding; RNA polymerase II core promoter sequence-specific DNA binding; histone acetyltransferase binding; protein binding; protein kinase binding; sequence-specific DNA binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; ubiquitin-protein ligase activity;

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