

## Recombinant Human PAX7

**Cat. No.** PAX7-29057TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment of Human PAX7 with N terminal proprietary tag, 38.21kDa inclusive of tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 111 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | <p>This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The specific function of the paired box 7 gene is unknown but speculated to involve tumor suppression since fusion of this gene with a forkhead domain family member has been associated with alveolar rhabdomyosarcoma. Three transcript variants encoding different isoforms have been found for this gene.</p> |
| <b>Molecular Weight</b> | 38.210kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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> | GGLDSATSISASCSQRADSIKPGDSLPTSQAYCPPTYSTT GYSVDPVAGYQYGQYG<br>QSECLVPWASPVPIPSPTPRASCL FMESYKVVSGWGMSISQMEKLKSSQMEQFT |
| <b>Sequence Similarities</b>    | Belongs to the paired homeobox family.Contains 1 homeobox DNA-binding domain.Contains 1 paired domain.               |

## GENE INFORMATION

|                            |                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">PAX7 paired box 7 [ Homo sapiens ]</a>                                                                                    |
| <b>Official Symbol</b>     | <a href="#">PAX7</a>                                                                                                                  |
| <b>Synonyms</b>            | PAX7; paired box 7; paired box gene 7; paired box protein Pax-7; Hup1;                                                                |
| <b>Gene ID</b>             | <a href="#">5081</a>                                                                                                                  |
| <b>mRNA Refseq</b>         | <a href="#">NM_001135254</a>                                                                                                          |
| <b>Protein Refseq</b>      | <a href="#">NP_001128726</a>                                                                                                          |
| <b>MIM</b>                 | <a href="#">167410</a>                                                                                                                |
| <b>Uniprot ID</b>          | <a href="#">P23759</a>                                                                                                                |
| <b>Chromosome Location</b> | 1p36.13                                                                                                                               |
| <b>Pathway</b>             | Transcriptional misregulation in cancers, organism-specific biosystem; Transcriptional misregulation in cancers, conserved biosystem; |

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**Function**

sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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