

## Recombinant Human MSMB

**Cat. No.** MSMB-31099TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length Human Prostate Secretory Protein/PSP with N terminal proprietary tag, 38.65kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>      | 114 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>        | <p>The protein encoded by this gene is a member of the immunoglobulin binding factor family. It is synthesized by the epithelial cells of the prostate gland and secreted into the seminal plasma. This protein has inhibin-like activity. It may have a role as an autocrine paracrine factor in uterine, breast and other female reproductive tissues. The expression of the encoded protein is found to be decreased in prostate cancer. Two alternatively spliced transcript variants encoding different isoforms are described for this gene. The use of alternate polyadenylation sites has been found for this gene.</p> |
| <b>Molecular Weight</b>   | 38.650kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Tissue specificity</b> | Strongly expressed in prostate, liver, kidney, breast and penis. Also expressed in pancreas, esophagus, stomach, deodenum, colon, trachea, lung, salivary glands and fallopian tube. PSP94 is expressed in lung and breast, whereas PSP57 is found in kidney an                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

 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

|                                 |                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>                   | Proprietary Purification                                                                                                  |
| <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> | MNVLLGSVVIFATFVTLCNASCYFIPNEGVPGDSTRKCMD LKGNKHPINSEWQTDN<br>CETCTCYETEISCCTLVSTPVG YD KDNCQRIFKKEDCKYIVVEKKDPKKTCSVSEWII |
| <b>Sequence Similarities</b>    | Belongs to the beta-microseminoprotein family.                                                                            |

## GENE INFORMATION

|                        |                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MSMB microseminoprotein, beta- [ Homo sapiens ]                                                                   |
| <b>Official Symbol</b> | MSMB                                                                                                              |
| <b>Synonyms</b>        | MSMB; microseminoprotein, beta-; beta-microseminoprotein; IGBF; MSP; MSPB; PN44; PRPS; PSP; PSP 94; PSP57; PSP94; |
| <b>Gene ID</b>         | 4477                                                                                                              |
| <b>mRNA Refseq</b>     | NM_002443                                                                                                         |
| <b>Protein Refseq</b>  | NP_002434                                                                                                         |
| <b>MIM</b>             | 157145                                                                                                            |
| <b>Uniprot ID</b>      | P08118                                                                                                            |

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|                        |                     |
|------------------------|---------------------|
| Chromosome<br>Location | 10q11.2             |
| Function               | molecular_function; |