

## Recombinant Human TM2D1 Protein, GST-tagged

**Cat. No.** TM2D1-103H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human BBP full-length ORF ( AAH29486.1, 33 a.a. - 207 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | The protein encoded by this gene is a beta-amyloid peptide-binding protein. It contains a structural module related to that of the seven transmembrane domain G protein-coupled receptor superfamily and known to be important in heterotrimeric G protein activation. Beta-amyloid peptide has been established to be a causative factor in neuron death and the consequent diminution of cognitive abilities observed in Alzheimers disease. This protein may be a target of neurotoxic beta-amyloid peptide, and may mediate cellular vulnerability to beta-amyloid peptide toxicity through a G protein-regulated program of cell death. |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 44.88 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | WGAVATSAGGEESLKCEDLKVGQYICKDPKINDATQEPVNCTNYTAHVSCFPAPNIT<br>CKDSSGNETHFTGNEVGFFKPISCRNVNGYSYKVAVALSLFLGWLGADRFYLGYP<br>LGLLKFC TVGFCGIGSLIDFILISMQIVGPSDGSSYIIDYYGTRLRLSITNETFRKTQLY<br>P                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.   |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

## GENE INFORMATION

|                        |                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TM2D1 TM2 domain containing 1 [ Homo sapiens ]                                                            |
| <b>Official Symbol</b> | TM2D1                                                                                                     |
| <b>Synonyms</b>        | TM2D1; TM2 domain containing 1; TM2 domain-containing protein 1; BBP; hBBP; beta-amyloid-binding protein; |
| <b>Gene ID</b>         | 83941                                                                                                     |
| <b>mRNA Refseq</b>     | NM_032027                                                                                                 |
| <b>Protein Refseq</b>  | NP_114416                                                                                                 |
| <b>MIM</b>             | 610080                                                                                                    |
| <b>UniProt ID</b>      | Q9BX74                                                                                                    |

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