

# Recombinant Full Length Human EIF2B1 Protein, GST-tagged

**Cat. No.** EIF2B1-4489HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Human EIF2B1 full-length ORF ( NP_001405.1, 1 a.a. - 305 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 305 amino acids                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | This gene encodes one of five subunits of eukaryotic translation initiation factor 2B (EIF2B), a GTP exchange factor for eukaryotic initiation factor 2 and an essential regulator for protein synthesis. Mutations in this gene and the genes encoding other EIF2B subunits have been associated with leukoencephalopathy with vanishing white matter. [provided by RefSeq, Oct 2009] |
| <b>Molecular Mass</b>   | 60.1 kDa                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MDDKELIEYFKSQMKEDPDMAVAIAIRTLLEFLKRDKGETIQGLRANLTSAIETLCG<br>VDSSVAVSSGGELFLRFISLASLEYSYDYSKCKKIMIERGELFLRRISLSRNKIADLCHT<br>FIKDGATILTHAYSRVVLRVLEAAVAACKRFSVYVTESQPDLSGKKMAKALCHLNVPV<br>TVVLDAAVGYIMEKADLVIVGAEGVVENGGIINKIGTNQMAVCAKAQNKPFFVVAESF<br>KFVRLFPLNQDVPDKFKYKADTLKVAQTGQDLKEEHPWVDYTAPSLITLLFTDLGV<br>LTPSAVSDELIKLYL                                                   |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay                                                                                                                                                                                                                                                                                                                                                    |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                       |
| <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.                                                                                                                                                                                                                                                         |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene Name</b>        | EIF2B1 eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa [ Homo sapiens ]                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>  | EIF2B1                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>         | EIF2B1; eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa; EIF2B, eukaryotic translation initiation factor 2B, subunit 1 (alpha, 26kD); translation initiation factor eIF-2B subunit alpha; EIF 2B; EIF 2Balpha; EIF2BA; eIF-2B GDP-GTP exchange factor subunit alpha; EIF2B; MGC117409; MGC125868; MGC125869; |
| <b>Gene ID</b>          | 1967                                                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>      | NM_001414                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>   | NP_001405                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>              | 606686                                                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>       | Q14232                                                                                                                                                                                                                                                                                                                           |

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