

# Recombinant Full Length *Oryza Sativa* Subsp. *Indica* Magnesium Transporter Mrs2-B(Mrs2-B) Protein, His-Tagged

**Cat. No.** RFL19876OF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length <i>Oryza sativa</i> subsp. <i>indica</i> Magnesium transporter MRS2-B(MRS2-B) Protein (A2YFN7) (1-436aa), fused to N-terminal His tag, was expressed in <i>E. coli</i> .                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Rice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | <i>E. coli</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Length</b>   | Full Length (1-436)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | MSAAAASSAAGDSAKQPLLHHQRGNPPHVASVSSPSLPSAPPGALAGGRRFPGGGL<br>DVPNL KKRGGGTRSWIRVEAATASVQTLEVDKATMMRRCELPARDLRLLDPLFVYP<br>STILGRERA IVVNLEQIRCVITADEVLLLNSLDSYVLQYAAELQRLLQRAEGDELPFE<br>FRALELALAEA ACSFLDAQAAELEIEAYPLLDELTSKISTLNLERVRLKSRLVALTRRV<br>QKVRDEIEQLM DDDGDMAEMLSEKKLRTEASFYGDQSM LGYNSVGDGTSFSAPV<br>SPVSSPTESRKLEKAF SLCRSRHDSVKSSDNTATEHIQELEM LLEAYFVVIDSTLNKL<br>TSLKEYIDDTEDFINIQL DNVRNQLIQFELLTTATFVVAIFGVVAGIFGMNFETSVFSI<br>QNAFQWVLIITGVIGAFI FCGFLWFFKYKRLMPL |
| <b>Purity</b>           | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Notes</b>            | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | for up to one week.                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>        | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b> | Tris/PBS-based buffer, 6% Trehalose, pH 8.0                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |

## GENE INFORMATION

|                   |                                                 |
|-------------------|-------------------------------------------------|
| <b>Gene Name</b>  | MRS2-B                                          |
| <b>Synonyms</b>   | MRS2-B; Osl_23924; Magnesium transporter MRS2-B |
| <b>UniProt ID</b> | <a href="#">A2YFN7</a>                          |

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