

# Recombinant Full Length *Oryza Sativa* Subsp. Japonica Aquaporin Nip3-1(Nip3-1) Protein, His-Tagged

**Cat. No.** RFL26388OF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length <i>Oryza sativa</i> subsp. japonica Aquaporin NIP3-1(NIP3-1) Protein (Q0IWF3) (1-311aa), 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>ProteinLength</b>    | Full Length (1-311)                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MEMAAPNGGGAAGMSSPVNGASAPATPGTPAPLFAGPRVDSLSYERKSMRCKC<br>LPAAVAEAWAPSAHGCVVEIPAPDVSLTRKLGAIEFVGTFILIFFATAAPIVNQKYGGAI<br>SPFGNAACAGLAVTTIILSTGHISGAHLNPSLTIAFAALRHFPWLQVPAYVAVQVLGSI<br>CAGFALKGVFHPFLSGGVTPDPTISTAQAFFTEFIITFNLLFVVTAVATDTRAVGELA<br>GIAVGAAVTLNILIAGPTTGSMNPVRTLGPAVAAGNYRQLWIYLIAPTLGAVAGAGV<br>YTAVKLRDENGETPRPQRSFRR |
| <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 for up to one week.                                                                                                                                                                                                                                       |
| <b>Storage</b>          | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid                                                                                                                                                                                                                                                         |

 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

repeated freeze-thaw cycles.

**Storage Buffer**

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Reconstitution**

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

**Gene Name**

NIP3-1

**Synonyms**

NIP3-1; Os10g0513200; LOC\_Os10g36924; OsJ\_030877; OSJNBa0026L12.23; OSJNBa0026L12.32; Aquaporin NIP3-1; NOD26-like intrinsic protein 3-1; OsNIP3;1

**UniProt ID**

[Q0IWF3](#)

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