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Product Information

MemDX™ Membrane Protein Oryza sativa subsp. japonica (Rice) LOC4340558 (Aquaporin NIP2-2-like) for Antibody Discovery

Cat. No.: **MP1455J**
This product is for research use only and is not intended for diagnostic use.

This product is a 31.8 kDa Oryza sativa subsp. japonica (Rice) LOC4340558 membrane protein expressed in *E.coli*. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Oryza sativa subsp. japonica (Rice)

Target Protein
LOC4340558

Protein Length
Full-length

Protein Class
Aquaporin

Molecular Weight
31.8 kDa

TMD
6

Sequence
MASTTAPSRTNSRVNYSNEIHDLSTVQSVSAVPSVYYPEKSFADIFPPNLLKKVISEVVATFLLVFVTCGAASIYGEDMKRISQLGQSV

Product Description

Expression Systems
E.coli

Tag
N-His or Tag-Free

Form
Lyophilized powder

Reconstitution

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).

Purity

>85% as determined by SDS-PAGE

Buffer

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

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

LOC4340558

Full Name

Aquaporin NIP2-2-like

Introduction

Silicon transporter involved in the distribution of silicon in shoots. Is responsible for the transport of silicon from the xylem to the leaf tissues. Silicon is beneficial to plant growth and helps plants to overcome abiotic and biotic stresses by preventing lodging (falling over) and increasing resistance to pests and diseases, as well as other stresses. In the nodes, involved with LSI2 and LSI3 in silicon intervascular transfer, which is required for the preferential distribution of silicon, such as hyperaccumulation of silicon in the husk.

Alternative Names

NIP2-2; LSI6; Os06g0228200; LOC_Os06g12310; OsJ_019836; P0425F05.28-1Aquaporin NIP2-2; Low silicon protein 6; NOD26-like intrinsic protein 2-2; OsNIP2;2; LOC4340558

Gene ID

4340558

UniProt ID

Q67WJ8

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