

Magnesium transporter MRS2-11 (MRS2-11), Recombinant Protein

Cat *RP08642*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Magnesium transporter MRS2-11, chloroplastic (MRS2-11)

Product Gene Name

MRS2-11 recombinant protein

Product Synonym Gene Name

GMN10; MGT10

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

CFAKSPTTAE DFVGDYESLN VSDDDDGSDS NSSDGDNGGG RDDSKIDSS SSSSSSDSTS LGIREPVYEV
VEVKATGAIS TRKINRRQLL KSSGLRPRDI RSVDP SLFMT NSVPSLLVRE HAILNLGSL RAIAMRDRVL
IFDYNRRGGR AFVDTLMPRL NPRSMNGGPS MPFELEAVES ALISRIQRLE QRLMDIEPRV QALLEVLPNR
LTADILEELR ISKQRLVELG SRAGALRQML LDLLED PHEI RRICIMGRNC TLRRGDDDL E CTLP SDKLIA
EEEEEEI EML LENYLQRCES CHGQAERLLD SAKEMEDSIA VNLSSRRLEV SRFELL LQVG TFCVAVGALI
AGIFGMNLRS YLEEQASAFW LTTGGIIGA AVAFFLMYSY LSRRKIF

Sequence Positions

63-459aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

51,093 Da

Storage

Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Protein Family

Magnesium transporter

NCBI Accession

NP_568424.1

NCBI GI

18420608

NCBI GenBank Nucleotide

NM_122188.3

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID

832346

NCBI Official Full Name

magnesium transporter 10

NCBI Official Symbol

MGT10

NCBI Official Synonym Symbols

ATMGT10; GMN10; magnesium (Mg) transporter 10; MAGNESIUM TRANSPORTER 10; MGT10; MRN17.6; MRN17_6; MRS2-11

NCBI Protein Information

magnesium transporter 10

UniProt Gene Name

MRS2-11

UniProt Synonym Gene Names

GMN10; MGT10; AtMGT10

UniProt Protein Name

Magnesium transporter MRS2-11, chloroplastic

UniProt Synonym Protein Names

Magnesium Transporter 10; AtMGT10

UniProt Entry Name

MRS2B_ARATH

UniProt Primary Accession

Q058N4

UniProt Secondary Accession

Q9FFC4; Q9FPL0

UniProt Related Accession

Q058N4

UniProt Comments

High-affinity magnesium transporter that mediates the influx of magnesium in chloroplast.

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