

Translocase of chloroplast 34 (TOC34), Recombinant Protein

Cat *RP05394*

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

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Translocase of chloroplast 34, chloroplastic (TOC34)

Product Gene Name

TOC34 recombinant protein

Product Synonym Gene Name

OEP34; PPI3

Purity

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

Sequence

MAALQTLREW IGIQQFPAT QSKLLEILGK YKEEDVSSLT VLVMGKGGVG KSSTVNSVIG EKAAAVSTFQ
SEGLRPTLVS RTRSGFTLNI IDTPGLIEGG YVNDQAINII KRFLNMTID VLLYVDRLDV YRVDDLDRQV
VGAITDAFGK EIWKKSALVL THAQFSPPDG LNYNHFVSKR SNALLKVIQT GAQLKKQDLQ GFSIPVILVE
NSGRCHKNES DEKILPCGTS WIPNLFNKIT EISFNGNKAI HVDKKLVEGP NPNERGKKLI PLMFAFQYLL
VMKPLVRAIK SDVSRESKPA WELRDSGLAS RRS

Sequence Positions

1-313aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

34,707 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

Translocase of chloroplast

NCBI Accession

NP_196119.1

NCBI GI

15238381

NCBI GenBank Nucleotide

NM_120582.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Cat *RP05394*

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

NCBI GeneID

830382

NCBI Official Full Name

translocase of chloroplast 34

NCBI Official Symbol

TOC34

NCBI Official Synonym Symbols

ARABIDOPSIS THALIANA TRANSLOCON AT THE OUTER ENVELOPE MEMBRANE OF CHLOROPLASTS 34; ATTOC34; MUG13.14; MUG13_14; OEP34; TOC34; translocon at the outer envelope membrane of chloroplasts 34

NCBI Protein Information

translocase of chloroplast 34

UniProt Gene Name

TOC34

UniProt Synonym Gene Names

OEP34; PPI3; AtToc34

UniProt Protein Name

Translocase of chloroplast 34, chloroplastic

UniProt Synonym Protein Names

34 kDa chloroplast outer envelope protein; GTP-binding protein OEP34; Plastid protein import 3

UniProt Entry Name

TOC34_ARATH

UniProt Primary Accession

Q38906

UniProt Secondary Accession

Q0WNL4; Q8L9G5; Q9FF74; Q9GDD2

UniProt Related Accession

Q38906

UniProt Comments

GTPase involved in protein precursor import into chloroplasts. Seems to recognize chloroplast-destined precursor proteins and regulate their presentation to the translocation channel through GTP hydrolysis. Probably specialized in the import of nuclear encoded non-photosynthetic preproteins from the cytoplasm to the chloroplast.

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