

Protein TIC 20-I (TIC20-I), Recombinant Protein



Cat RP08628

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

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Protein TIC 20-I, chloroplastic (TIC20-I)

Product Gene Name

TIC20-I recombinant protein

Purity

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

Sequence

LSYLSASSSL LLNGEQGSL S GTLPVLPVRR K TLLTPRASK DVPSSFRFPP MTKKPQWWWR TLACLPYLMP LHETWMYAET AYHLHPFLED F EFLTPYFLG AIGRLPSWFL MAYFFVAYLG IVRRKEWPHF FRFHVMGML LEIALQVIGT VSKWMPLGVY WGKFGMHFWT AVAFAYLFTV LESIRCALAG MYADIPFVCD AAYIQIPYD

Sequence Positions

66-274aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

31,204 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

Protein

NCBI Accession

NP_171986.3

NCBI GI

145335109

NCBI GenBank Nucleotide

NM_100372.4

NCBI GenelD

839374

NCBI Official Full Name

protein TIC 20

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Protein TIC 20-I (TIC20-I), Recombinant Protein

Cat RP08628

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

NCBI Official Symbol

TIC20

NCBI Official Synonym Symbols

F13M7.7; F13M7_7; TIC20; translocon at the inner envelope membrane of chloroplasts 20

NCBI Protein Information

protein TIC 20

NCBI Summary

Tic20 is believed to function as a component of the protein-conducting channel at the inner envelope membrane. Genes AT1G04940 and AT1G04945 were switched for the TAIR7 genome release to give consistency with MIPs annotation.

UniProt Gene Name

TIC20-I

UniProt Synonym Gene Names

AtTIC20-I

UniProt Protein Name

Protein TIC 20-I, chloroplastic

UniProt Synonym Protein Names

Translocon at the inner envelope membrane of chloroplasts 20-I

UniProt Entry Name

TI201_ARATH

UniProt Primary Accession

Q8GZ79

UniProt Secondary Accession

Q9MAU2

UniProt Related Accession

Q8GZ79

UniProt Comments

Involved in protein precursor import into chloroplasts. May be part of an intermediate translocation complex acting as a protein-conducting channel at the inner envelope. Seems to be specific for photosynthesis-related pre-proteins. Partially redundant with TIC20-IV, but not with TIC20-II or TIC20-V.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY