

# 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 LLNGEQGSLS GTLPVLPVRR KTLTPRASK DVPSSFRFPP MTKKPQWWWR TLACLPYLMP  
LHETWMYAET AYHLHPFLED FEFLTYPFLG AIGRLPSWFL MAYFFVAYLG IVRRKEWPHF FRFHVVMGML  
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 GeneID

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*

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## 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.

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