

# Sucrose transport protein SUC3 (SUC3), Recombinant Protein

Cat RP01248

Size 1 mg (*E-Coli*)/ 1 mg (*Yeast*)

## Species

*Arabidopsis thaliana* (Mouse-ear cress)

## Full Product Name

Recombinant *Arabidopsis thaliana* Sucrose transport protein SUC3 (SUC3) , partial

## Product Gene Name

SUC3 recombinant protein

## Purity

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

## Sequence

MSDSVSIQVP YRNLKKEIEL ETVTKHRQNE SGSSSFSESA SPSNHSDSAD GESVSKNCSL VTLVLSCTVA  
AGVQFGWALQ LSLTPYIQT LGISHAFSSF IWLCGPITGL VVQPFVGIWS DKCTSKYGRR RPFILVGSFM  
ISIAVHIGF SADIGYLLGD SKEHCSTFKG TRTRAAVVFI IGFWLLDLAN NTVQGPALAD LADLSGPDQR  
NTANAVFCLW MAIGNILGFS AGASGKWQEW FPFLTSRACC AACGNLKAFF LLAVVFLTIC TLVTIYFAKE  
IPFTSNKPTR IQDSAPLLDD LQSKGLEHSK LNNGTANGIK YERVERDTDE QFGNSENEHQ DETYVDGPGS  
VLVNLTLR HLPPAMHSVL IVMALTWLSW PFPLFDTDW MGREYHGDV TGDLSHMEYV DQGVREGALG  
LLNSVVLGI SSFLIEPMCQ RMGARVVWAL SNFTVFACMA GTAVISLMSL SDDKNGIEYI MRGNETTRTA  
AVIVFALLGF PLAITYSVPF SVTAEVTADS GGGQGLAIGV LNLAIVIPQM IVSLGAGPWD QLFGGGNLPA  
FVLASVAFA AGVIALQRLP TLSSSFKSTG FHIG

## Sequence Positions

1-594

## Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

## Host

*E. coli* or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

63,973 Da

## Storage

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

## Protein Family

Sucrose transport protein

## NCBI Accession #

NP\_178389.1

## NCBI GI #

15227049

## NCBI GenBank Nucleotide #

NM\_126341.3

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

# Sucrose transport protein SUC3 (SUC3), Recombinant Protein

Cat *RP01248*

Size *1 mg (E-Coli)/ 1 mg (Yeast)*

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## NCBI GeneID

814817

## NCBI Official Full Name

sucrose transporter 2

## NCBI Official Symbol

SUT2

## NCBI Official Synonym Symbols

ARABIDOPSIS THALIANA SUCROSE TRANSPORTER 3; ATSUC3; ATSUT2; SUC3; sucrose transporter 2; SUCROSE TRANSPORTER 3; T17M13.3; T17M13\_3

## NCBI Protein Information

sucrose transporter 2

## NCBI Summary

encodes a sucrose transporter in sieve elements and a number of sink tissues and cell types. Gene expression is induced by wounding.

## UniProt Gene Name

SUC3

## UniProt Synonym Gene Names

SUT2

## UniProt Protein Name

Sucrose transport protein SUC3

## UniProt Synonym Protein Names

Sucrose permease 3; Sucrose transporter 2; Sucrose-proton symporter 3

## UniProt Primary Accession #

O80605

## UniProt Related Accession #

O80605

## UniProt Comments

Responsible for the transport of sucrose into the cell, with the concomitant uptake of protons (symport system). Can also transport maltose at a lesser rate. May also transport biotin. Probably involved in carpel maturation that leads to pod shatter and seed dispersal.

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