



Product Sheet

(97624)

Please read this **FIRST**



Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

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U.S. Patent Number:

5,589,618

Technical Information

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Product Description

Organism: *Zea mays* Linnaeus
, corn

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

SAFETY PRECAUTION

ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submerged in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.

Unpacking & Storage Instructions

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C , preferably in liquid nitrogen vapor, until ready for use.

Comments

Mutant corn seed

Produces seed with a 15% weight increase over wild-type seed, but without a corresponding increase in starch

The Sh2-m1Rev6 variant encodes an ADP-glucose pyrophosphorylase enzyme subunit that has the arginine:threonine amino acid pair inserted between the tyrosine and isoleucine at amino acid residues 503 and 504, respectively, of the native protein.

Corn seed containing serine and tyrosine in a position of the large subunit of the endosperm enzyme, adenosine diphosphate glucose pyrophosphorylase encoded by the gene *shrunken2*

Propagation

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S.



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Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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