

TRANSFORMATION SERVICES FROM CORTEVA AGRISCIENCE

Corteva Agriscience is a world leading developer and supplier of advanced trait technologies. Our goal is to develop effective, sustainable, and durable solutions to agricultural challenges. We are dedicated to enable the broader research community in academia and industry through our research-as-a-service program. As part of this effort, we offer transformation services in three crops: Maize, Soybean and Sorghum. Our proprietary plant transformation technology coupled with world class analytical capabilities can accelerate research by delivering high quality events. We use industry leading technologies that power Corteva's R&D pipeline to serve external customer's needs. PCR and the proprietary Southern-by-Sequencing (SbS™) technology is used to identify single copy, backbone free, marker free, SNPs free, sequence-verified events with known insert location. We have earned great customer satisfaction for our services and look forward to leveraging our cutting-edge technology to serve the needs of scientists around the globe.



EVENT QUALITY TO SUIT YOUR NEEDS

	GOLD	PLATINUM
Single copy	✓	✓
Vector backbone check	✓*	✓**
Sequence verified	X	✓
Insert location	X	✓
No fragments	X	✓

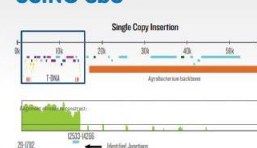


* Presence of vector backbone checked using qPCR only, absence of fragments cannot be guaranteed

** Absence of vector backbone confirmed using SbS™

WHY CHOOSE PLATINUM QUALITY EVENTS?

INSERT SEQUENCE VERIFICATION AND LOCATION USING SbS™

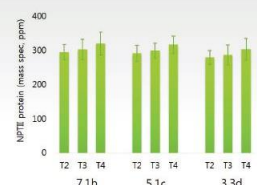


Zastrow-Hayes *et al.*, (2015)

Southern-by-Sequencing: A Robust Screening Approach for Molecular Characterization of Genetically Modified Crops

The Plant Genome, Vol. 8 No. 1

CONSISTENT TRANSGENE EXPRESSION



Betts *et al.*, (2019)

Uniform Expression and Relatively Small Position Effects Characterize Sister Transforms in Maize and Soybean

Frontiers in Plant Science, Vol 10, No. 1209.

CONSISTENT EXPERIMENT RESULTS AND SUPERIOR QUALITY RESEARCH

CROPS AND GENOTYPES OFFERED



- Elite inbreds
- Tropical inbreds



- Tx430



- Williams82



WE CAN ALSO CATER TO YOUR CUSTOM NEEDS



Lowe *et al.*, (2016)

Morphogenic Regulators Baby boom and Wuschel Improve Monocot Transformation

The Plant Cell, 28: 1998-2015

OFFERINGS

TRANSGENIC PACKAGE	DELIVERABLE
Platinum +	3-5 single copy sequence verified events (multigene)
Platinum	3-5 single copy sequence verified events (single gene)
Gold	3-5 single copy PCR verified events

CONTACT US

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