Thaw and Culture Details

Cell Line Name	**STAN331i-952C3**
WiCell Lot Number	**DB44191**
Provider	Stanford University – Laboratory of Dr. Thomas Quetermous
Banked By	Icahn School of Medicine at Mount Sinai Stem Cell Core
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.
Culture Platform	Feeder Independent
	Medium: mTeSR1™
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR1™Protocol
Passage Number	p12 These cells were cultured for 12 passages after colony picking prior to freeze. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialed	03-September-2015
Vial Label	ISMMS 952i-C3 P12 SLD 090315
Biosafety and Use Information	Appropriate biosafety precautions should be followed when working with these cells. The end user is responsible for ensuring that the cells are handled and stored in an appropriate manner. WiCell is not responsible for damages or injuries that may result from the use of these cells. Cells distributed by WiCell are intended for research purposes only and are not intended for use in humans.

Testing Performed by WiCell

Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	Recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-CH-044	Negative	Pass

Testing Reported by Provider

Test Description	Method	Result
Mycoplasma	Lonza MycoAlert kit	Negative

The Provider stated that some or all of the additional analyses listed below may have been performed for this cell line. For more information, publication and dbGaP links, where available, are provided on the cell line specific web page on the WiCell website.

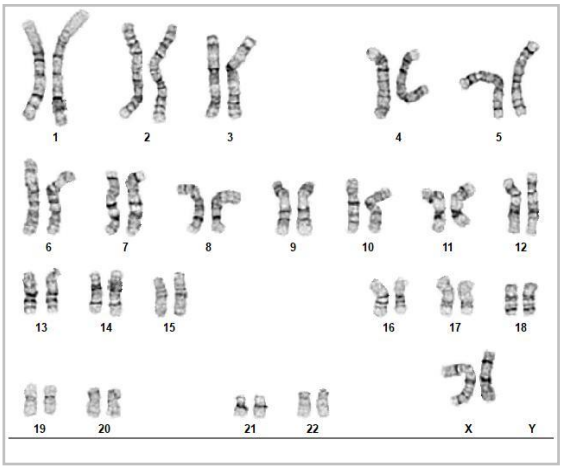
- RNA-Seq
- Whole Genome Sequencing
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA^{EX})

Approval Date	Quality Assurance Approval
08-November-2016	3/26/2020 X JKG JKG Quality Assurance Signed by: Gay, Jenna

Chromosome Analysis Report: 080595

Date Reported: Thursday, February 27, 2020
Cell Line: STAN331i-952C3-DB44191
Passage#: 14
Date of Sample: 2/24/2020
Specimen: Human IPSC
Results: 46,XX

Cell Line Sex: Female
Reason for Testing: LOT_RELEASE
Investigator: WiCell Stem Cell Bank, WiCell



Cell: 17
Slide: G03
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 9
Total Karyogrammed: 5
Band Resolution: 450 - 525

Interpretation:
This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.

Completed by: [redacted], CG(ASCP)
Reviewed and Interpreted by: [redacted] PhD, FACMG

Date:_____ **Sent By:**____ **Sent To:**_____ **QC Review By:** ____

Limitations: This assay allows for microscopic visualization of numerical and structural chromosome abnormalities. The size of structural abnormality that can be detected is >3-10Mb, dependent upon the G-band resolution obtained from this specimen. For the purposes of this report, band level is defined as the number of G-bands per haploid genome. It is documented here as "band level", i.e., the range of bands determined from the four karyograms in this assay. Detection of heterogeneity of clonal cell populations in this specimen (i.e.,mosaicism) is limited by the number of metaphase cells examined, documented here as "# of cells counted".

Short Tandem Repeat Analysis

TRIPath
HISTOLOGY - IHC - MOLECULAR - IMAGING
Department of Pathology and Laboratory Medicine
TRIP Laboratory (Molecular)
https://research.pathology.wisc.edu/trip-home/
(608) 265-9168

WiCell
Your Lab Partner
characterization@wicell.org
(608) 316-4145

Sample Report:
STAN331i-952C3-DB44191 p.14 (D02 (80595)
Sample Name on Tube: STAN331i-952C3-DB44191 p.14 (D02 (80595)
22.0 ng/µL, (A260/280=1.49)
Sample Type: DNA
Cell Count: N/A

Requestor:
WiCell Research Institute
Characterization Department

Receive Date: 03/02/20
Report Sent: 03/14/20
Assay Date: 03/10/20
File Name: STR 200311 wmr
Report Date: 03/14/20

STR Locus	STR Genotype Repeat #	STR Genotype
FGA	16–18,18.2,19,19.2,20,20.2,21,21.2,22, 22.2, 23, 23.2, 24, 24.2, 25, 25.2, 26–30, 31.2, 43.2, 44.2,45.2, 46.2	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact WiCell's Technical Support.
TPOX	6-13	
D8S1179	7-18	
vWA	10-22	
Amelogenin	X,Y	
Penta_D	2.2, 3.2, 5, 7-17	
CSF1PO	6-15	
D16S539	5, 8-15	
D7S820	6-14	
D13S317	7-15	
D5S818	7-16	
Penta_E	5-24	
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	
D21S11	24,24.2,25,25.2,26-28,28.2,29,29.2, 30, 30.2,31, 31.2,32,32.2,33,33.2, 34,34.2,35,35.2,36-38	
TH01	4-9,9.3,10-11,13.3	
D3S1358	12-20	

Results: Based on the STAN331i-952C3-DB44191 p.14 (D02 (80595) cells submitted by WiCell Characterization Department dated and received on 03/02/20, this sample (Label on Tube: STAN331i-952C3-DB44191 p.14 (D02 (80595)) defines the STR profile of the human cell line STAN331i-952C3 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human STAN331i-952C3 cell line were detected and the concentration of DNA required to achieve an acceptable STR genotype (signal/ noise) was equivalent to that required for the standard procedure (~1 ng/amplification reaction) from human genomic DNA. This result suggests that the STAN331i-952C3-DB44191 p.14 (D02 (80595) sample submitted corresponds to the STAN331i-952C3 cell line and was not contaminated with any other human stem cells or a significant amount of mouse feeder layer cells.

Sensitivity: Sensitivity limits for detection of STR polymorphisms unique to either this or other human cell lines is ~2-5%.

X *RMB* **Digitally Signed on 03/14/20**

[redacted], *BA*
TRIP Laboratory, Molecular

X *WMR* **Digitally Signed on 03/14/20**

[redacted], *PhD, Director / Co-Director*
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report

STERIS

SAMPLE #:	19081786
DATE RECEIVED:	22-Aug-19
TEST INITIATED:	28-Aug-19
TEST COMPLETED:	11-Sep-19

WiCell
504 S Rosa Road, Rm 101
Madison, WI 53719

SAMPLE NAME / DESCRIPTION:

PACS1001i-GM27160 DB67267 14974
MCW029i-A2757 WB67282 14975
WC048i-17097-02-06 WB67278 14976
WC049i-17097-02-07 WB67280 14977
STAN331i-952C3 DB44191 14978
STAN332i-952C5 DB44194 14979
STAN250i-622C2 DB35669 14980
STAN252i-637C2 DB44374 14981
STAN156i-334C1 DB35697 14982
STAN157i-334C2 DB35700 14983

UNIQUE IDENTIFIER: NA

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
10	0	2 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
10	TSB	40	20-25	14
10	FTG	40	30-35	14

REFERENCE: Processed according to LAB-003: Sterility Test Procedure
PD #: 000053
TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: NA

REVIEWED BY _____ DATE 12/9/19

Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell

24Feb20

FORM SOP-CH-048.01
Version B Edition 01

Sample Name	Result	Comments/Suggestions
STAN292i-827C2-DB44307 (80508)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN088i-060C1-DB35739 (80509)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN164i-352C1-DB35976 (80510)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN360i-465C2-DB44240 (80511)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN331i-952C3-DB44191 (80533)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN332i-952C5-DB44194 (80534)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN312i-906C3-DB44421 (80535)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN251i-637C1-DB44371 (80536)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CREM024i-SS36-1-DB48037 (80537)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN252i-637C2-DB44374 (80538)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN311i-906C1-DB44418 (80539)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: Amber Kuhn, Assistant Research Specialist
Reviewed by: Hannah Rueth, Assistant Research Specialist

A gel image is available upon request.