

#### **Thaw and Culture Details**

Cell Line Name	JHU163i		
WiCell Lot Number	DB36365		
Provider	Johns Hopkins University – Laboratory of Dr. Lewis Becker		
Banked By	Johns Hopkins University – Laboratory of Dr. Lewis Becker		
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 5 wells of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.		
Culture Platform	Feeder Independent		
	Medium: E8		
	Matrix: Vitronectin		
Protocol	WiCell Feeder Independent E8 Medium Protocol		
Passage Number	p12 These cells were cultured for 12 passages post reprogramming prior to freeze. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.		
Date Vialed	13-February-2016		
Vial Label	P163 P12 2/13/16 1M cells		
Biosafety and Use Information	This cell line is of human origin. 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
	WiCell	SOP-CH-003	Expected karyotype	See Report
Karyotype by G-banding	<b>Results:</b> 46,XY,der(1)ins(1;1)(q44;q42.1q25.3)[12]/46,XY[8] <b>Interpretation:</b> This is an abnormal karyotype. Twelve of twenty cells examined contain an unbalanced rearrangement of chromosome 1 in which an extra copy of the long (q) arm of chromosome 1 was duplicated and inserted into the q arm of chromosome 1. The derivative chromosome 1 results in gain of chromosome 1q. Gain of chromosome 1q is a recurrent acquired abnormality in pluripotent stem cell cultures. No other clonal abnormalities were detected at the stated band level of resolution.			
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 profile	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-CH-044	Negative	Pass



#### **Testing Reported by Provider**

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.

- Embryoid bodies
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)

Approval Date	Quality Assurance Approval
14-July-2016	S,9/2019  X JKG  NG  Quality Assurance Signed by Gay, Anna



#### Chromosome Analysis Report: 076094

Date Reported: Monday, April 22, 2019 Cell Line Sex: Male

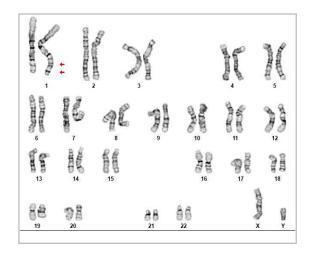
Cell Line: JHU163i-DB36365 14491 Reason for Testing: lot release testing

Passage#: 13

Date of Sample: 4/15/2019 Investigator: WiCell

Specimen: Human IPS

Results: 46,XY,der(1)ins(1;1)(q44;q42.1q25.3)[12]/46,XY[8]



Completed by

Cell: 14

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 9

Total Karyogrammed: 4

Band Resolution: 450 - 550

#### Interpretation:

This is an abnormal karyotype. Twelve of twenty cells examined contain an unbalanced rearrangement of chromosome 1 in which an extra copy of the long (q) arm of chromosome 1 was duplicated and inserted into the q arm of chromosome 1. The derivative chromosome 1 results in gain of chromosome 1q. Gain of chromosome 1q is a recurrent acquired abnormality in pluripotent stem cell cultures. No other clonal abnormalities were detected at the stated band level of resolution.

Date:	Sent By:	Sent To:	QC Review By:
Reviewed and Interpreted by:		, PhD, FACMG	

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".

This assay was conducted solely for listed investigator/institution. The results of this assay are for research use only. Unless otherwise mutually agreed in writing, the services provided to you hereunder by WiCell Research Institute, Inc. ("WiCell") are governed solely by WiCell's Terms and Conditions of Service, found at www.wicell.org/privacyandterms. Any terms you may attach to a purchase order or other document that are inconsistent, add to, or conflict with WiCell's Terms and Conditions of Service are null and void and of no legal force or effect.



#### **Short Tandem Repeat Analysis** HISTOLOGY - IHC - MOLECULAR - IMAGING



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

characterization@wicell.org (608) 316-4145

**Sample Report:** 14491-STR

Sample Name on Tube: 14491-STR

 $69.0 \text{ ng/}\mu\text{L}, (A260/280=1.82)$ 

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** WiCell Research Institute Quality Assurance Department **Receive Date:** 04/22/19 **Report Sent:** 04/25/19 **Assav Date:** 04/23/19

File Name: STR 190424 wmr

**Report Date:** 04/25/19

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
TPOX	6-13	information has
D8S1179	7-18	been redacted to protect donor
vWA	10-22	confidentiality. If
Amelogenin	X,Y	more information
Penta_D	2.2, 3.2, 5, 7-17	is required,
CSF1PO	6-15	please, contact
D16S539	5, 8-15	WiCell's Technical
D7S820	6-14	Support.
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 14491-STR cells submitted by WiCell QA dated and received on 04/22/19, this sample (Label on Tube: 14491-STR) defines the STR profile of the human stem cell line JHU163i comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human JHU163i stem 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 14491-STR sample submitted corresponds to the JHU163i stem 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 stem cell lines is  $\sim 2-5\%$ .

X WMR  $\mathbf{X}$  RMB Digitally Signed on 04/25/19 Digitally Signed on 04/25/19 , PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

### Native Product Sterility Report



SAMPLE #:

19021135

DATE RECEIVED:

14-Feb-19

504 S Rosa Road, Rm 101

**TEST INITIATED:** 

19-Feb-19

Madison, WI 53719

WiCell

**TEST COMPLETED:** 

05-Mar-19

SAMPLE NAME / DESCRIPTION:

JHU163i

DB36365 14328

JHU177i

DB36386 14329

STAN323i-928C2

DB35766 14330

STAN324i-928C6

DB35769 14331

WC024i-FXS-Nluc1 WB67008 14332

WC037i-20-02

WB67009 14333

JHU210i

DB36846 14334

JHU191i

DB41404 14335

JHU259i

DB37140 14336

STAN070i-169-2

WB67010 14337

**UNIQUE IDENTIFIER:** 

NA

**TEST RESULTS:** 

	# Positives	
# Tested	(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** 

Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. This test report shall not be reproduced, except in full, without prior written approval. Liability is limited to the costs of the tests. Results applied to samples as received.



# WiCell

## Mycoplasma Assay Report PCR-based assay performed by WiCell

PCR-based assay performed by WiCell
Lot Release Testing
16Apr19

#	Sample Name	Result	Comments/Suggestions
1	JHU163i-DB36365 14491	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
2	Positive (+) Control	Positive	
3	Negative (-) Control	Negative	

Reported by: Sondra Minter, Cell Culture Specialist
Reviewed by: Katie Remondini, Cell Culture Specialist
Date:\_\_\_\_\_\_ Sent By:\_\_\_\_ Sent To\_\_\_\_\_\_

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 $A \ gel \ image \ is \ available \ upon \ request.$