

# **Certificate of Analysis**

### **Thaw and Culture Details**

Cell Line Name	PENN132i-131-5							
WiCell Lot Number	DB35044							
Provider/Client	University of Pennsylvania – Dr. Daniel Rader							
Banked By	Penn Institute for Regenerative Medicine iPS Core Facility							
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate using Stem Cell Culture Medium and MEF. WiCell recommends thawing using ROCK Inhibitor for best results.							
Protocol	WiCell Feeder Based (MEF) Pluripotent	t Stem Cell Protocol						
Culture Platform Prior to Freeze	Medium: Stem Cell Culture Medium	Matrix: MEF						
Passage Number	p14 Cells were cultured for 14 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 15.							
Date Vialed	22-July-2015							
Vial Label	iPS-131 Sev5 P14 07-22-15 JS							
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.							



# **Certificate of Analysis**

### **Results**

<b>Test Description</b>	Test Provider	Test Method	Test Specification	Result
WiCell		G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
Karyotype	Results: 46,XX Interpretation: T resolution.	his is a normal karyotype; no clonal abnorm	nalities were detected at the stated band leve	l of
Post-Thaw Viable Cell Recovery	WiCell	Thaw using specified Thaw & Culture Recommendations	Recoverable attachment after passage	Pass
Identity by STR	WiCell	PowerPlex 16 HS System by Promega <sup>™</sup>	Defines STR profile of deposited cell line	See Report
Mycoplasma	WiCell	PCR	Amplification of mycoplasma specific DNA detected with negative result	Pass
Sterility	Steris	Native Product Direct Transfer using FTM and TSB (ST/07)	Negative for growth following 14 days of culture	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.

- SNP microarray
- Flow Cytometry (Tra1-60 and SSEA-4)
- Differentiation into hepatocytes
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)

Approval Date	WiCell Quality Assurance Approval						
27-June-2016	77/1/2021  X JKG  IKG  WiCell Quality Assurance Signed by Gay, Jenna						



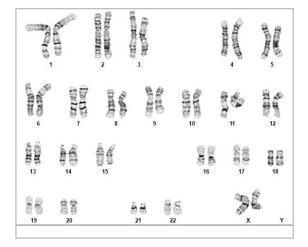
### Chromosome Analysis Report: 086612

Date Reported: Tuesday, June 22, 2021

Cell Line: PENN132i-131-5-DB35044

Submitted Passage #: 17
Date of Sample: 6/11/2021
Specimen: Human IPSC

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: LOT\_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell

Cell: 52

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 475 - 550

QC Review By:

#### Interpretation:

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

Completed by:	, CG(ASCP)
Reviewed and Interpreted by:	, Ph.D.

Limitation	s: Th	is assa	y allow	s for	micro	scopic	visua	lizatio	n of n	umerica	I and s	tructura	l chromosome	abnormali	ties.	The si.	ze of	struc	tura	l abnor	mality	that can	be dete	ected
					<b>~</b> ·							_												

Sent By:\_\_\_\_ Sent To:\_\_\_\_

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**

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 07Jun21, 08Jun21, 11Jun21 STR Amplification Date: 17Jun21

Sample Name	STAN366i-282C2- WB67655 p19	WA01- WB67657 p22	WA01- WB67656 p22	PENN132i-131- 5-DB35044 p17							
Label on tube	86549	86550	86570	86612							
FGA											
ТРОХ											
D8S1179											
vWA											
Amelogenin		1.1 456 .	to a								
Penta_D	Identifying information has										
CSF1PO	been redacted to protect donor										
D16S539		confide	ntiality. If								
D7S820		more information									
D13S317	is required, please contact										
D5S818	info@wicell.org										
Penta_E											
D18S51											
D21S11											
TH01											
D3S1358											
Allelic Polymorphisms	28	28	28	25							
Matches*	75318, 84404	67689, 74318, 86570	67689, 74318, 86550								
Comments											

<sup>\*</sup>Note: The STR profile of the following sample is an exact match for the given sample/samples.

## **Short Tandem Repeat**

Form SOP-89.01 Version 5.0

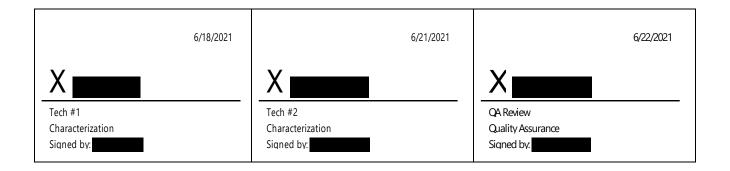
Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 07Jun21, 08Jun21, 11Jun21 STR Amplification Date: 17Jun21

<u>Assay Description:</u> STR analysis is performed using the PowerPlex 16 HS System by Promega<sup>TM</sup>. Results are reported as 13 CODIS STR markers, Amelogenin for gender determination and two low-stutter, highly discriminating pentanucleotide STR markers.

**Results:** The genotypic profiles comprise a range of 25-28 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> 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. These results suggests that the cells submitted correspond to the cell lines as named and were not contaminated with any other human cells or a significant amount of mouse feeder layer cells.

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



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Raw data is available upon request.

# Native Product Sterility Report



SAMPLE #:

21050267

DATE RECEIVED:

06-May-21

TEST INITIATED:

12-May-21

**TEST COMPLETED:** 

26-May-21

SAMPLE NAME / DESCRIPTION:

504 S Rosa Road, Rm 101

Madison, WI 53719

WiCell

CHB-4-WB67645

WIZ02e-H9CAGhM4Di-WB67644

PENN111i-222-5-DB36511
PENN121i-69-1-DB34956
PENN023i-82-1-DB35098
PENN114i-127-2-DB34717
PENN132i-131-5-DB35044

SCRP5003i-DB42961 SCRP5508i-DB42969 SCRP5603i-DB42976

**UNIQUE IDENTIFIER:** 

N/A

**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 John Buckhard

DATE 36 May 2021

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.



## Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell 25May21

Sample Name	Result	Interpretation
INC149 17May21MMM 1 of 2 (86273)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC149 17May21MMM 2 of 2 (86274)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 17May21KR 1 of 2 (86275)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 17May21KR 2 of 2 (86276)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PENN114i-127-2-DB34717 p14 (86309)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PENN122i-627-5-DB36632 p14 (86310)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PENN132i-131-5-DB35044 p15 (86311)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Tech #1
Characterization
Signed by:

5/27/2021

5/27/2021

X

QA Review
Quality Assurance
Signed by:
Signed by:

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A gel image is available upon request.