



## Thaw and Culture Details

Cell Line Name	<b>PENN004i-277-1</b>
WiCell Lot Number	<b>DB36075</b>
Provider	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 Stem Cell Protocol
Culture Platform Prior to Freeze	Feeder Dependent
	Medium: Stem Cell Culture Medium
	Matrix: MEF
Passage Number	p13 These cells were cultured for 13 passages prior to freeze and post colony picking. Therefore, plated cells at thaw should be labeled passage 14.
Date Vialied	14-July-2015
Vial Label	iPS-277 SEV1 P13 7/14/2015 ZL
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-49	Expected karyotype	See Report
	<b>Results:</b> 46,XY Nonclonal findings: 46,XY,del(1)(q32) <b>Interpretation:</b> This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution. There is a nonclonal finding, listed above. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.			
Post-Thaw Viable Cell Recovery	WiCell	SOP-99	Recoverable attachment after passage	Pass
Identity by STR	WiCell	PowerPlex 16 HS System by Promega	Defines STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-79	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.

- SNP microarray
- Flow Cytometry (Tra1-60 and SSEA-4)
- Differentiation into hepatocytes
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)



Approval Date	Quality Assurance Approval
23-June-2016	<p style="text-align: right;">10/22/2020</p> <p>X JKG _____ JKG Quality Assurance Signed by Gay, Jenna</p>

**Date Reported:** Tuesday, October 13, 2020

**Cell Line Sex:** Male

**Cell Line:** PENN004i-277-1-DB36075

**Reason for Testing:** LOT\_RELEASE

**Submitted Passage #:** 15

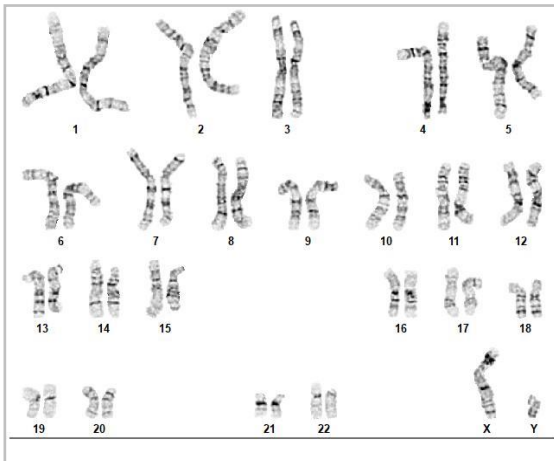
**Date of Sample:** 10/1/2020

**Investigator:** WiCell Stem Cell Bank, WiCell

**Specimen:** Human iPSC

**Results:** 46,XY

**Nonclonal findings:** 46,XY,del(1)(q32)



**Cell:** 3

**Slide:** G01

**Slide Type:** Karyotype

**Total Counted:** 20

**Total Analyzed:** 9

**Total Karyogrammed:** 5

**Band Resolution:** 425 - 500

**Interpretation:**

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

**There is a nonclonal finding, listed above. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.**

**Completed by:** [REDACTED], CG(ASCP)

**Reviewed and Interpreted by:** [REDACTED], Ph.D.

**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".*

*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](http://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: 29Sep20, 06Oct20  
 STR Amplification Date: 08Oct20

Sample Name	CREM004i-SS2-1- WB67570 p14	H9-h1nn12-pGZ-1D2- WB67569 p40	PENN004i-277-1- DB36075 p14
Label on tube	83042	83043	83151
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support</a> .		
TPOX			
D8S1179			
vWA			
Amelogenin			
Penta_D			
CSF1PO			
D16S539			
D7S820			
D13S317			
D5S818			
Penta_E			
D18S51			
D21S11			
TH01			
D3S1358			
Allelic Polymorphisms	27	24	26
Matches*	67489		
Comments			

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



# Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell  
Samples Received: 29Sep20, 06Oct20  
STR Amplification Date: 08Oct20

**Results**The genotypic profiles comprise a range of 24-27 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** 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.

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

10/9/2020

X [Redacted]

Tech #1  
Characterization  
Signed by: [Redacted]

10/13/2020

X [Redacted]

Tech #2  
Characterization  
Signed by: [Redacted]

10/12/2020

X [Redacted]

QA Review  
Quality Assurance  
Signed by: [Redacted]

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*Raw data is available upon request.*

# Native Product Sterility Report



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

SAMPLE #: 19100858  
DATE RECEIVED: 10-Oct-19  
TEST INITIATED: 16-Oct-19  
TEST COMPLETED: 30-Oct-19

SAMPLE NAME / DESCRIPTION: WC059i-108-1-2-19 WB67322 15075  
WC057i-108-1-2-02 WB67323 15076  
PENN003i-661-4 DB36301 15058  
PENN004i-277-1 DB36075 15059  
SCR8401i DB43123 15048  
SCR9602i DB43150 15049  
MCW030i-A2688 WB67307 15050  
MCW020i-A2023 WB67311 15054  
WC024i-FXS-Nluc1 WB67318 15055  
WC053i-FX08-25 WB67320 15057

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 31 OCT 19

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

16Sep20

FORM SOP-83.01

Version 01

Sample Name	Result	Comments/Suggestions
INC149 08Sep20 AP (82819)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WAI001-B-1-iETV2-DB67533 (82859)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 09Sep20KR (82864)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN270i-720C3-DB44433 (82868)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PENN004i-277-1-DB36075 (82871)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
PENN058i-285-3-DB34799 (82872)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
H13-FMR1-FLAG-DB67479 (82877)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WISCe011-A-39-WB67548 (82881)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN09i-33114.C.B-WB67531 (82882)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [REDACTED] Research Specialist

Reviewed by: [REDACTED], Assistant Research Specialist

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*A gel image is available upon request.*