



## Thaw and Culture Details

Cell Line Name	<b>PACS1002i-GM27159</b>
WiCell Lot Number	<b>DB67290</b>
Provider	PACS1 Foundation
Banked By	Coriell Institute for Medical Research
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.
Culture Platform	Feeder Dependent
	Medium: Stem Cell Culture Medium
	Matrix: MEF
Protocol	WiCell Feeder Dependent
Passage Number	p17 These cells were cultured for 16 passages prior to freeze and post colony picking. The Provider adds +1 to the passage number at freeze to best represent what the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 17.
Date Viald	17-June-2019
Vial Label	S033745*B P17 06/17/2019
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	Result	Report
Sterility by growth on agar and broth	Negative	Report not available
Mycoplasma by qRT-PCR	Negative	Report not available
Identity Match by Short Tandem Repeat	Match parental cell line	Report not available
Cytogenomics by G-banding, Affymetrix Human SNP Array 6.0	46,XX[23].arr[hg19]arr[hg19]1q32.1(202,810,354-205,535,539)x2~3	Report Available



Approval Date	Quality Assurance Approval
25-November-2019	<p style="text-align: right;">11/25/2019</p> <p>X <u>JKG</u></p> <p><small>JKG Quality Assurance Signed by Gaj, Jenna</small></p>

**Date Reported:** Tuesday, October 8, 2019  
**Cell Line:** PACS1002i-GM27159-DB67290  
15004

**Cell Line Sex:** Female  
**Reason for Testing:** Lot release testing

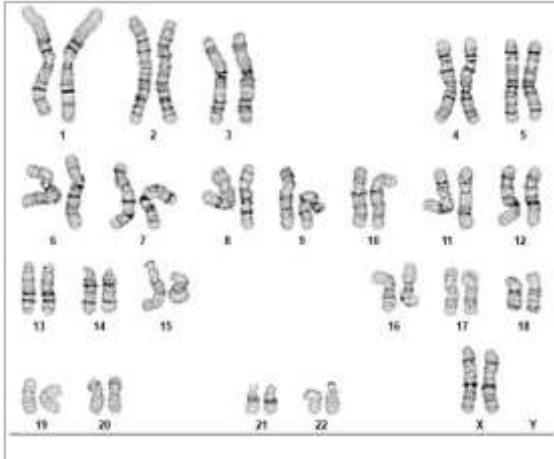
**Passage#:** 18

**Date of Sample:** 10/1/2019

**Investigator:** [REDACTED], WiCell

**Specimen:** Human iPSC

**Results:** 46,XX



**Cell:** 14  
**Slide:** G03  
**Slide Type:** Karyotype

**Total Counted:** 20  
**Total Analyzed:** 8  
**Total Karyogrammed:** 4  
**Band Resolution:** 475 - 500

### 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] 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.*



HISTOLOGY - IHC - MOLECULAR - IMAGING

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

# Short Tandem Repeat Analysis



characterization@wicell.org  
(608) 316-4145

**Sample Report:**

15083-STR  
**Sample Name on Tube:** 15083-STR  
54.3 ng/μL, (A260/280=1.76)  
**Sample Type:** Cells  
**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute  
Quality Assurance Department

**Receive Date:** 11/04/19

**Report Sent:** 11/12/19  
**Assay Date:** 11/08/19  
**File Name:** STR 191111 wmr  
**Report Date:** 11/12/19

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 information has been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support</a> .
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 15083-STR cells submitted by WiCell QA dated and received on 11/04/19, this sample (Label on Tube: 15083-STR) defines the STR profile of the human cell line PACS1002i-GM27159 comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human PACS1002i-GM27159 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 15083-STR sample submitted corresponds to the PACS1002i-GM27159 cell line and was 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%.

X *RMB*

Digitally Signed on 11/12/19

X *WMR*

Digitally Signed on 11/12/19

██████████, BA  
TRIP Laboratory, Molecular

██████████, PhD, Director / Co-Director  
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Testing was accomplished by analysis of human genetic polymorphisms at STR loci. This methodology has not yet been approved by the FDA and is for investigational use only.

**Acknowledge TRIP in your publications, posters & presentations. For details, see: <https://research.pathology.wisc.edu/acknowledging-trip/>**  
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# Native Product Sterility Report



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

## CORRECTED REPORT

SAMPLE #: 19090374  
DATE RECEIVED: 05-Sep-19  
TEST INITIATED: 09-Sep-19  
TEST COMPLETED: 23-Sep-19

SAMPLE NAME / DESCRIPTION:

CBiPS-LZ6+3	WB67279	14989
hIPSC-Di21-c2-4-4	WB67281	14990
MCW026i-50000685	WB67283	14991
NiPSC	WB67284	14992
WIZ02e-H9CAGhM4Di	WB67286	14993
WIZ04e-H9CAGmChry	WB67287	14994
WC050i-17097-02-01	WB67288	14995
WC005i-FX11-7	WB67289	14996
PACS1002i-GM27159	DB67290	14997
SCR4505i	WB67291	14998

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: Report revised due to corrected Sample Name/Description.

REVIEWED BY \_\_\_\_\_

DATE 25SEP19

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

September 25, 2019

FORM SOP-CH-048.01

Version A Edition 01

Sample Name	Result	Comments/Suggestions
PACS1002i-GM27159-DB67290 15004 (78432)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC059i-108-1-2-19-DB67314 15034 (78433)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC057i-108-1-2-02-DB67312 15038 (78434)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

**Reported by: Molly Miles, Cell Culture Specialist**

**Reviewed by: Katie Remondini, Cell Culture Specialist**

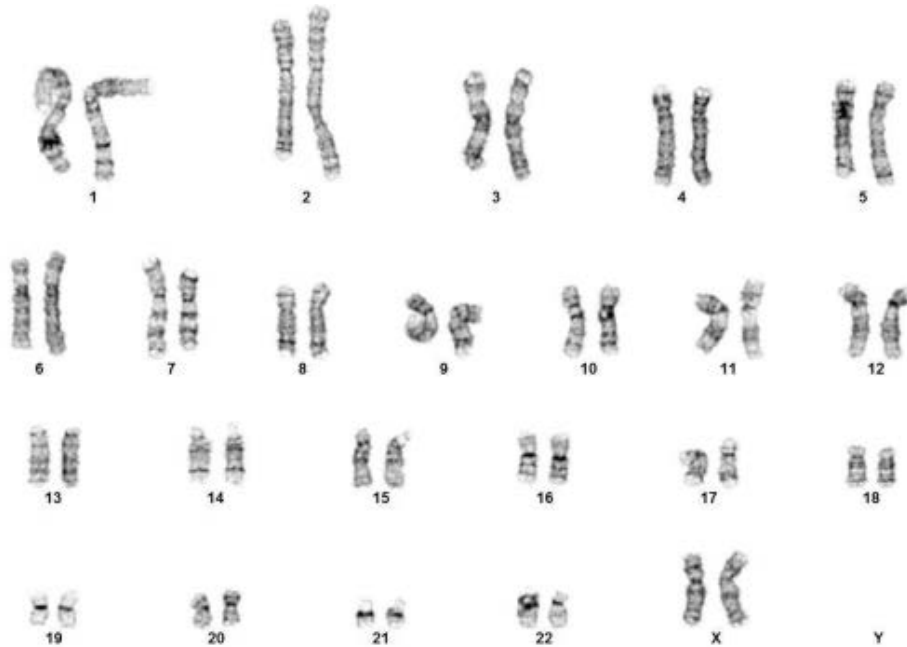
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*A gel image is available upon request.*



## Cytogenomics

Microarray	Affymetrix Human SNP Array 6.0
Cytogenetic Banding Technique	G-banding
Passage at Analysis	P19
Metaphase Cells Counted	25
Metaphase Cells Analyzed	25
Metaphase Cells Karyotyped	5
Short ISCN	46,XX[23].arr[hg19]arr[hg19] 1q32.1(202,810,354-205,535,539)x2~3



**Figure 5.** G-banding karyogram