



## Thaw and Culture Details

Cell Line Name	<b>MCW107i-4000886</b>
WiCell Lot Number	<b>WB67227</b>
Parent Material	MCW107i-4000886-DB66415
Provider	Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: TeSR™-E8™
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p16 These cells were cultured for 15 passages prior to freeze and post colony selection. WiCell adds +1 to the passage number at freeze to best represent the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 16.
Date Vialied	17-June-2019
Vial Label	MCW107i-4000886 p16 WB67227
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
	<p><b>Results:</b> 46,XY,del(16)(p13.1)[4]/46,XY[16]  <b>Interpretation:</b> This is an abnormal karyotype. A terminal deletion of the short (p) arm of chromosome 16 is present in four of twenty cells examined. No other clonal abnormalities were detected at the stated band level of resolution.</p>			
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and 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

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.

- Tra1-60 marker expression
- mRNA expression by qPCR
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

Approval Date	Quality Assurance Approval
04-June-2020	<p style="text-align: right;">6/4/2020</p> <p>X JKG JKG Quality Assurance Signed by: Gay, Jenna</p>



## Chromosome Analysis Report: 079145

Date Reported: Friday, November 22, 2019

Cell Line Sex: Male

Cell Line: MCW107i-40000886-WB67227  
15154

Reason for Testing: Lot release

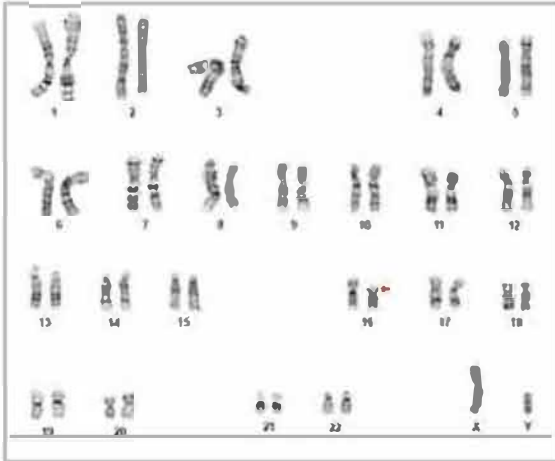
Passage#: 16

Date of Sample: 11/20/2019

Investigator: [REDACTED], WiCell

Specimen: Human iPSC

Results: 46,XY,del(16)(p13.1)[4]/46,XY[16]



Cell: 37

Slide: G01

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 9

Total Karyogrammed: 5

Band Resolution: 400 - 550

### Interpretation:

This is an abnormal karyotype. A terminal deletion of the short (p) arm of chromosome 16 is present in four of twenty cells examined. No other 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".

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



Your Lab Partner

characterization@wicell.org  
(608) 316-4145

**Sample Report:**

15154-STR

**Sample Name on Tube:** 15154-STR

-3.3 ng/ $\mu$ L, (A260/280=0.65)

**Sample Type:** Cells

**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute

Quality Assurance Department

**Receive Date:** 12/05/19

**Report Sent:** 12/16/19

**Assay Date:** 12/10/19

**File Name:** STR 191212 wmr

**Report Date:** 12/16/19

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 15154-STR cells submitted by WiCell QA dated and received on 12/05/19, this sample (Label on Tube: 15154-STR) defines the STR profile of the human cell line MCW107i-40000886 comprising 25 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human MCW107i-40000886 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 15154-STR sample submitted corresponds to the MCW107i-40000886 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 12/16/19

X *WMR*

Digitally Signed on 12/16/19

██████████, 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

SAMPLE #: 19070830  
DATE RECEIVED: 11-Jul-19  
TEST INITIATED: 17-Jul-19  
TEST COMPLETED: 31-Jul-19

SAMPLE NAME / DESCRIPTION:

SCRP2503i	DB42072	14868
SCRP2506i	DB42076	14869
SCRP2409i	DB42066	14870
SCRP2411i	DB42069	14871
JHU229i	DB37022	14872
JHU232i	DB37035	14873
JHU242i	DB37058	14874
JHU246i	DB37106	14875
JHU251i	DB37118	14876
JHU253i	DB37125	14877
WC047i-17097-01-36	WB67236	14878
LUEL8679i-4	WB67230	14879
MCW107i-40000886	WB67227	14880
hIPSC-Tri21-c2-4	WB67228	14881
hIPSC-Tri21-c2-4	WB67229	14882
SCRP2106i	DB42037	14883
SCRP2211i	DB42051	14884
MCW104i-U2175	WB67231	14885
MCW113i-U7145	WB67243	14886
STAN217i-496C2	DB35538	14887

UNIQUE IDENTIFIER: NA

## TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	0	2 Negatives

## TEST SUMMARY:

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

## REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

## PD #:

000053

## TEST METHODOLOGY:

USP - Direct Transfer

# Native Product Sterility Report



COMMENTS: Sample # 19070830

REVIEWED BY 

DATE 31 JUL 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

25Nov19

FORM SOP-CH-048.01

Version A Edition 01

Sample Name	Result	Comments/Suggestions
MCW110i-U2170-WB67204 15153 (79186)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW107i-40000886-WB67227 15154 (79187)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW101i-40001005-WB67209 15159 (79188)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC060i-226-1-2-22-WB67334 15142 (79189)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [REDACTED], Cell Culture Specialist

Reviewed by: [REDACTED], Cell Culture Specialist

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*A gel image is available upon request.*