

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

Cell Line Name	MCW101i-40001005
WiCell Lot Number	WB67209
Parent Material	MCW101i-40001005-DB66409
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	p17 These cells were cultured for 16 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 17.
Date Vialed	28-May-2019
Vial Label	MCW101i-40001005 p17 WB67209
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
	WiCell	SOP-CH-003	Expected karyotype	See Report
Karyotype by G-banding	unbalanced rearrangemer chromosome 1 was transle	an abnormal karyotype at of chromosome X in ocated to the long (q)	e. Five of twenty cells examined con which an extra copy of the long (q) arm of chromosome X. The derivative	arm of ve chromosome
	X results in loss of the entire Xq and 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	≥ 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 (MEGAEX)

Approval Date	Quality Assurance Approval
04-June-2020	G/4/2020  X JKG  JKG  Quality Assurance Signed by Gay, Jenna



#### Chromosome Analysis Report: 079147

Date Reported: Monday, November 25, 2019 Cell Line Sex: Female

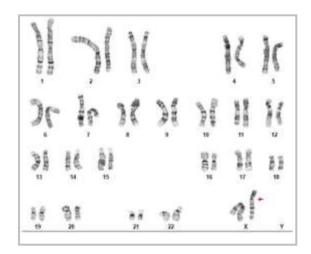
Cell Line: MCW101i-40001005-WB67209 Reason for Testing: Lot release testing

15159

Passage#: 17

Date of Sample: 11/20/2019 Specimen: Human IPSC

Results: 46,X,der(X;1)(p10;q10),+1[5]/46,XX[15]



Cell: 26 Slide: G01

Investigator:

Slide Type: Karyotype

WiCell

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 5
Band Resolution: 375 - 425

#### Interpretation:

This is an abnormal karyotype. Five of twenty cells examined contain an unbalanced rearrangement of chromosome X in which an extra copy of the long (q) arm of chromosome 1 was translocated to the long (q) arm of chromosome X. The derivative chromosome X results in loss of the entire Xq and 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:		art, Ph.D.	
Completed by:	,	CG(ASCP)	

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.

# **®TRIP**ath

#### 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: 15159-STR

Sample Name on Tube: 15159-STR

 $106.9 \text{ ng/\mu L}, (A260/280=1.91)$ 

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		Identifying information has
TPOX	6-13	been redacted to
D8S1179		protect donor
vWA	10-22	confidentiality. If
Amelogenin	X,Y	more information
Penta D	2.2, 3.2, 5, 7-17	is required, please, contact
CSF1PO	6-15	WiCell's Technical
D16S539	5, 8-15	Support.
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 15159-STR cells submitted by WiCell QA dated and received on 12/05/19, this sample (Label on Tube: 15159-STR) defines the STR profile of the human cell line MCW101i-40001005 comprising 25 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MCW101i-40001005 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 15159-STR sample submitted corresponds to the MCW101i-40001005 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 X WMR 12/16/19 12/16/19 Digitally Signed on Digitally Signed on , PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

### Native Product Sterility Report



SAMPLE #:

19060913

DATE RECEIVED:

12-Jun-19

**TEST INITIATED:** 

14-Jun-19

28-Jun-19

TEST COMPLETED:

SAMPLE NAME / DESCRIPTION:

504 S Rosa Road, Rm 101

Madison, WI 53719

WiCell

STAN204i-448C1 WB67189 14791

MCW013i-A2767 WB67191 14792

JHU242i DB37058 14793

MCW085i-40002118 WB67193 14794 MCW081i-U7128 WB67194 14795 STAN043i-124-1 WB67196 STAN038i-118-2 WB67197 14797 MCW007i-U2456 WB67198 MCW096i-40000169 WB67199 14799 MCW074i-40002460 WB67203 14800 MCW110i-U2170 WB67204 14801 STAN044i-124-2 WB67206 14802 MCW105i-U2130 WB67207 14803 MCW103i-40000237 WB67208 14804 MCW101i-40001005 WB67209 14805 hIPSC-Di21-c2-4-4 WB67210 14806

WA07 WB67212 14807 WA07 WB67213 14808

MCW021i-50001743 WB67214 14809 hIPSC-Di21-c2-4-3 WB67215 14810

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

STERIS Laboratories 9303 West Broadway Ave Brooklyn Park, MN 55445

LAB-003 rev 32 Form 5 Effective: Nov 29, 2018 Page 1 of 2

## Native Product Sterility Report



COMMENTS	S:	NΑ
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REVIEWED BY	Na	DATE 28 JUNIA

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 WiCell 25Nov19

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: Cell Culture Specialist
Reviewed by: Cell Culture Specialist

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A gel image is available upon request.