

Thaw and Culture Details

Cell Line Name	MCW099i-40000558	
WiCell Lot Number	WB67411	
Parent Material	MCW099i-40000558-DB66407	
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 Vialed	07-February-2020	
Vial Label	MCW099i-40000558 p16 WB67411	
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	≥ 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	
21-May-2020	5/21/2020 X JKG JKG Quality Assurance Signed by Gay, Jenna	



Chromosome Analysis Report: 080761

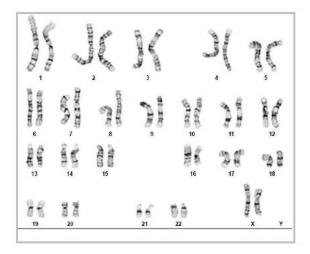
Date Reported: Tuesday, March 10, 2020

Cell Line: MCW099i-40000558-WB67411

Passage#: 16

Date of Sample: 3/4/2020 Specimen: Human IPSC

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell

Cell: 27

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 400 - 475

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:	, PhD, FACMG

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, dep	endent upon the G-band resolution obtaine	ed from this specimen. For the purposes of this report, ba	and level is defined as the number of G-bands per
hanloid genome	It is documented here as "hand level" i.e.	the range of hands determined from the four karyogran	ns in this assay. Detection of heterogeneity of clonal

______ Sent By:____ Sent To:_____ QC Review By: ____

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 Laboratory (Molecular)

Short Tandem Repeat **Analysis** HISTOLOGY - IHC - MOLECULAR - IMAGING

Your Lab Partner

characterization@wicell.org

(608) 316-4145

Sample Report:

(608) 265-9168

MCW099i-40000558-WB67411 p.16 (80761)

Department of Pathology and Laboratory Medicine

https://research.pathology.wisc.edu/trip-home/

Requestor: WiCell Research Institute Characterization Department

Report Sent: 03/16/20 Assay Date: 03/10/20

Receive Date: 03/09/20

File Name: STR 200311 wmr

Report Date: 03/16/20

19.3 ng/ μ L, (A260/280=1.52)

Sample Type: DNA Cell Count: N/A

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
TPOX	6-13	been redacted to
D8S1179	7-18	protect donor
vWA	10-22	confidentiality. If
Amelogenin	X,Y	more information
Penta D	2.2, 3.2, 5, 7-17	is required,
CSF1PO	6-15	please, contact WiCell's Technica
D16S539	5, 8-15	Support.
D7S820	6-14	ουρροιι.
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 MCW099i-40000558-WB67411 p.16 (80761) DNA submitted by WiCell Characterization Department dated and received on 03/09/20, this sample (Label on Tube: MCW099i-40000558-WB67411 p.16 (80761)) defines the STR profile of the human cell line MCW099i-40000558 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MCW099i-40000558 cell line were detected, including triploid genotype at the Penta D loci. Additionally, allelic imbalance (denoted by ** in the table above) was observed at the Penta D loci. These observations could be the result of chromosomal gains, losses and/or amplifications in this cell line. 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 MCW099i-40000558-WB67411 p.16 (80761) sample submitted corresponds to the MCW099i-40000558 cell line and was not contaminated with any other human stem 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 WMR \mathbf{X} RMB Digitally Signed on 03/16/20 **Digitally Signed on** 03/16/20 , PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report



WiCell

504 S Rosa Road, Rm 101

Madison, WI 53719

CORRECTED

SAMPLE #:

20021177

DATE RECEIVED:

20-Feb-20

TEST INITIATED:

21-Feb-20

TEST COMPLETED:

06-Mar-20

SAMPLE NAME / DESCRIPTION:

WC070i-335-1-2-30 WB67391 JHU206i WB67393 MCW056i-U7076 WB67392 MCW018i-A2868 WB67397 MCW024i-A3263 WB67398 MCW046i-U2346 WB67396 STAN205i-448C2 WB67399 STAN120i-192C2 WB67406 MCW054i-U2073 WB67407 MCW058i-U2082 WB67408 MCW062i-U2157 WB67410 MCW072i-40001708 WB67413 MCW099i-40000558 WB67411 MIN09i-33114.C WB67412 MCW051i-40001166 WB67409 MCW079i-40001456 WB67414 MCW055i-U2054 WB67416 MCW098i-40002583 WB67417 STAN206i-459C1 WB67418 STAN130i-212C4 WB67415

UNIQUE IDENTIFIER:

NA

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	0	3 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

Native Product Sterility Report



RE	-		-11/	\r-
H-	-	Hr	-1711	

Processed according to LAB-003: Sterility Test Procedure

PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

Sample #20021177

Report revised due to Customer request to update sample name.

REVIEWED BY

DATE 10MARZOZD

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

FORM SOP-CH-048.01 Version B Edition 01

PCR-based assay performed by WiCell
WiCell
04Mar20

Sample Name	Result	Comments/Suggestions
MCW099i-40000558-WB67411 (80709)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW072i-40001708-WB67413 (80710)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW102i-UR117-WB67432 (80716)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW108i-U2165-WB67431 (80717)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Elf1-WB67433 (80718)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW062i-U2157-WB67410 (80719)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 02Mar20KR (80720)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC149 02Mar20AP (80721)	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.