

## **Thaw and Culture Details**

Cell Line Name	MCW030i-A2688		
WiCell Lot Number	WB67307		
Parent Material	MCW030i-A2688-DB66335		
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	15-September-2019		
Vial Label	MCW030i-A2688 p16 WB67307		
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** 

	1				
Test Description	Test Provider	Test Method	Test Specification	Result	
	WiCell	SOP-CH-003	Expected karyotype	See Report	
Karyotype by G-banding	Results: 46,X,der(X)t(X;1)(q22;q11)[10]/46,XX[10] Interpretation: This is an abnormal karyotype. Ten 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 trans/ocated to the long arm of chromosome X. The derivative chromosome X results in loss of chromosome 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	
18-June-2020	6/18/2020  X JKG  JKG  Quality Assurance Signed by Gay, Jenna	



#### Chromosome Analysis Report: 080032

Date Reported: Thursday, February 6, 2020

Cell Line: MCW030i-A2688-WB67307 15257

Passage#: 16

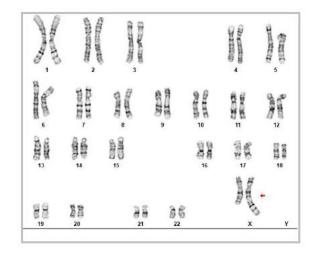
Date of Sample: 1/30/2020 Specimen: Human IPSC

Results: 46,X,der(X)t(X;1)(q22;q11)[10]/46,XX[10]

Cell Line Sex: Female

Reason for Testing: Lot release testing





Cell: 13

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 475 - 525

#### Interpretation:

This is an abnormal karyotype. Ten 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 arm of chromosome X. The derivative chromosome X results in loss of chromosome 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.

Completed by:	, CG	G(ASCP)	
Reviewed and Interpreted by:		, 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. 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 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: MCW030i-A2688-WB67307 15257 p.16 (80032) D01

WiCell Research Institute

Requestor:

Characterization Department

Sample Name on Tube: MCW030i-A2688-WB67307 15257 p 16 (80032) D01

 $16.5 \text{ ng/}\mu\text{L}$ , (A260/280=1.88)

D3S1358

Sample Type: DNA Cell Count: N/A

**Report Sent:** 02/10/20 Assay Date: 02/04/20 File Name: STR200207 wmr

Receive Date: 02/03/20

**Report Date: 02/07/20** 

STR Locus STR Genotype Repeat # STR Genotype 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, Identifying **FGA** 44.2,45.2, 46.2 information has TPOX 6-13 been redacted to D8S1179 7-18 protect donor confidentiality. If vWA 10-22 more information X,Y Amelogenin is required. 2.2, 3.2, 5, 7-17 Penta D please, contact 6-15 CSF1PO 5, 8-15 D16S539 6-14 D7S820 7-15 D13S317 7-16 D5S818 5-24 Penta E 8-10, 10.2, 11-13, 13.2, 14-27 D18S51 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 D21S11 4-9,9.3,10-11,13.3 **TH01** 

Results: Based on the MCW030i-A2688-WB67307 15257 p.16 (80032) D01 DNA submitted by WiCell Characterization Department dated and received on 02/03/20, this sample (Label on Tube: MCW030i-A2688) defines the STR profile of the human cell line MCW030i-A2688 comprising 24 allelic polymorphisms across the 15 STR loci analyzed.

12-20

Interpretation: No STR polymorphisms other than those corresponding to the human MCW030i-A2688 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 MCW030i-A2688-WB67307 15257 p.16 (80032) D01 sample submitted corresponds to the MCW030i-A2688 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%.

 $\mathbf{X}$  RMB X WMR Digitally Signed on 02/10/20 Digitally Signed on 02/10/20 , PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

# Native Product Sterility Report



SAMPLE #: 19100858

WiCell DATE RECEIVED: 10-Oct-19

504 S Rosa Road, Rm 101 TEST INITIATED: 16-Oct-19

Madison, WI 53719 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

SCRP8401i DB43123 15048 SCRP9602i 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 310 CT (9

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
29Jan20

Sample Name	Result	Comments/Suggestions
MCW026i-50000685-WB67283 15256 (79973)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
UCSD128i-7-5-WB67390 15263 (79974)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW055i-U2054-DB66384 15246 (79976)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW030i-A2688-WB67307 15257 (79977)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW007i-U2456-WB67198 15252 (79978)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC064i-247-1-2-22-WB67389 15259 (79979)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW013i-A2767-WB67191 15253 (79980)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW035i-A3267-WB67388 15251 (79981)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW020i-A2023-WB67311 15258 (79982)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW054i-U2073-DB66383 15247 (79989)	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.