

### **Thaw and Culture Details**

Cell Line Name	MCW031i-A3202							
WiCell Lot Number	WB66537							
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	p13 These cells were cultured for 12 passages prior to freeze and post colony picking. WiCell 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 13.							
Date Vialed	16-August-2017							
Vial Label	MCW031i-A3202 p13 WB66537							
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				
	Results: 47,XX,+12[2]/46,XX[18]							
Karyotype by G-banding	Interpretation: This is an abnormal karyotype. There is an extra copy of chromosome 12 in two of							
	twenty cells examined. Trisomy 12 is a recurrent acquired abnormality in human pluripotent stem cell							
	cultures. No other clonal a	abnormalities were fou	ind.					
Post-Thaw Viable Cell			≥ 15 Undifferentiated Colonies					
Recovery			prior to passage,					
recovery	WiCell	SOP-CH-305	≤ 30% Differentiation prior to	Pass				
			passage, and recoverable					
			attachment after passage					
Identity by STR	UW Translational	PowerPlex 16 HS	Defines STR profile of deposited					
	Research Initiatives in	System by	cell line	Pass				
	Pathology Laboratory	Promega	cen nne					
Sterility	Steris	ST/07	Negative	Pass				
Mycoplasma	WiCell	SOP-QU-004	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			
01-June-18	JKG  NG Outlify Assurance Signed by: Gay, Jenna			



### Chromosome Analysis Report: 067767

Date Reported: Thursday, September 14,

2017

Cell Line: MCW031i-A3202-WB66537 12799

Passage#: 13

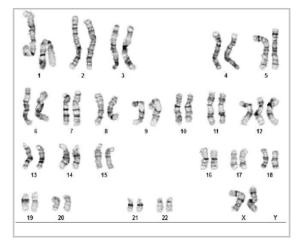
Date of Sample: 9/1/2017 Specimen: Human IPS

Results: 47,XX,+12[2]/46,XX[18]

Cell Line Gender: Female

Reason for Testing: lot release testing

Investigator: , WiCell CDM



Cell: 26

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 9

Total Karyogrammed: 4
Band Resolution: 400 - 450

#### Interpretation:

This is an abnormal karyotype. There is an extra copy of chromosome 12 in two of twenty cells examined. Trisomy 12 is a recurrent acquired abnormality in human pluripotent stem cell cultures. No other clonal abnormalities were found.

Completed by: Reviewed and Interpreted by: , CG(ASCP)
PhD, FACMG

A signed copy of this report is available upon request.

 Date:
 \_\_\_\_\_\_ Sent By:
 \_\_\_\_\_\_ 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 may not be relied upon by any other party without the prior written consent of the Director of the WiCell Cytogenetics Laboratory. The results of this assay are for research use only. If the results of this assay are to be used for any other purpose, contact the Director of the WiCell Cytogenetics Laboratory.

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# Short Tandem Repeat Analysis

WiCell®
info@wicell.org
(888) 204-1782

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular) http://www.pathology.wisc.edu/research/trip

Sample Report: 12799-STR

Sample Name on Tube: 12799-STR

40.9 ng/μL, (A260/280=2.22)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department Sample Date: N/A

**Receive Date:** 09/05/17 **Assay Date:** 09/12/17

File Name: 170913 STR WMR

**Report Date:** 09/15/17

STR Locus	STR Genotype Repeat #	STR Genotype				
FGA	44.2,45.2, 46.2					
TPOX	6-13	been redacted to				
D8S1179	7-18	protect donor				
vWA	10-22	confidentiality. If				
Amelogenin	X,Y	more information is required,				
Penta_D						
CSF1PO	6-15	please, contact WiCell's Technical				
D16S539	5, 8-15	Support.				
D7S820	6-14	<u> </u>				
D13S317	7-15					
D5S818	D5S818         7-16           Penta E         5-24					
Penta E						
D18S51	<b>D18S51</b> 8-10, 10.2, 11-13, 13.2, 14-27					
D21S11	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					

<u>Results:</u> Based on the 12799-STR cells submitted by WiCell QA dated and received on 09/05/17, this sample (Label on Tube: 12799-STR) defines the STR profile of the human stem cell line MCW031i-A3202 comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human MCW031i-A3202 stem cell line were detected however, allelic imbalance (denoted by \*\* in table above) was observed at the FGQ loci and could be the result of chromosomal gains and/or losses 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 12799-STR sample submitted corresponds to the MCW031i-A3202 stem cell line and was not contaminated with any other human stem cells or a significant amount of mouse feeder layer cells.

<u>Sensitivity:</u> Sensitivity limits for detection of STR polymorphisms unique to either this or other human stem cell lines is  $\sim 2-5\%$ .

X RMB	Digitally Signed on 09/15/17	X WMR	Digitally Signed on 09/15/17
TRIP La	boratory, Molecular	UWHC Molecula	PhD, Director / Co-Director ar Diagnostics Laboratory / UWSMPH TRIP Laborator

## Native Product Sterility Report



SAMPLE #:

18052304

DATE RECEIVED:

31-May-18

TEST INITIATED:

22-Jun-18

TEST COMPLETED:

06-Jul-18

SAMPLE NAME / DESCRIPTION:

SCRP6703i WB66803 13763

RUES3 WB66807 13764

RUES1 WB66808 13765

WC007i-FX13-2 WB66809 13766 MCW001i-40001487 DB66306 13767 MCW007i-U2456 DB66312 13768 MCW009i-40002262 DB66314 13770 MCW031i-A3202 WB66537 13771 MCW077i-40001579 WB66500 13772 MCW076i-U2129 WB66507 13773

UNIQUE IDENTIFIER:

NΑ

PRODUCT REGISTRATION:

Other: Human iPS cells

**TEST RESULTS:** 

WiCell

504 S Rosa Rd, Rm 101

Madison, WI 53719

# 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

METHOD VALIDATION / PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

NΑ

REVIEWED BY

elessand

DATE D9JUL18

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.



### **Mycoplasma Detection Assay Report**

Testing Performed by WiCell Lot Release Testing August 30, 2017 FORM SOP-QU-004.01 Version F Edition 02 Reported by: KR Reviewed by: JB BD Monolight 180

		Reading A A		Read	ling B	В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	$\mathbf{B}/\mathbf{A}$	Result	Comments/Suggestions
1	MCW031i-A3202-WB66537 12799	230	240	235	90	90	90	0.38	Negative	
2	Positive (+) Control	387	395	391	25241	25413	25327	64.77	Positive	
3	Negative (-) Control	573	581	577	66	63	64.5	0.11	Negative	

