

### **Thaw and Culture Details**

Cell Line Name	WC033i-6007-2						
WiCell Lot Number	WB66539						
Provider	University of Wisconsin – Laboratory of Anita Bhattacharyya						
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: mTeSR™1						
	Matrix: Matrigel®						
Protocol	WiCell Feeder Independent mTeSR™1 Protocol						
Passage Number	p10 These cells were cultured for 9 passages prior to freeze and post reprogramming. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.						
Date Vialed	18-August-2017						
Vial Label	WC033i-60-07-2 p10 WB66539						
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	Fail			
Result: 46,XY,dup(20)(q11.2q11.2)[6]/46,XY[14] Interpretation: This is an abnormal karyotype. There is an interstitial duplication in the long arm of chromosome 20 in six of twenty cells examined. This abnormality appears to be the recurrent acquired duplication of 20q seen in human pluripotent stem cell cultures. Confirmation of this abnormality by higher resolution (fluorescence in situ hybridizationFISH) testing is recommended. No other clonal defined abnormalities were found.							
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	≥ 15 Undifferentiated Colonies, ≤ 30% Differentiation and recoverable attachment after passage	Pass			
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines profile	Pass			
Sterility	Steris	ST/07	Negative	Pass			
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass			



Approval Date	Quality Assurance Approval		
03-November-2017	RK Quality Assurance Signed by Kremers, firik		



### Chromosome Analysis Report: 067715

Date Reported: Wednesday, September 13,

2017

Cell Line: WC033i-6007-2-WB66539 12779

Passage#: 10

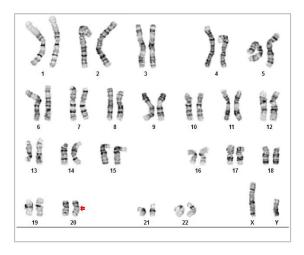
Date of Sample: 8/30/2017 Specimen: Human IPS

Results: 46,XY,dup(20)(q11.2q11.2)[6]/46,XY[14]

Cell Line Gender: Male

Reason for Testing: lot release testing

Investigator: Katie Remondini, WiCell CDM



Cell: 8

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 475 - 525

#### Interpretation:

This is an abnormal karyotype. There is an interstitial duplication in the long arm of chromosome 20 in six of twenty cells examined. This abnormality appears to be the recurrent acquired duplication of 20q seen in human pluripotent stem cell cultures. Confirmation of this abnormality by higher resolution (fluorescence in situ hybridization--FISH) testing is recommended. No other clonal defined abnormalities were found.

Completed by: Seth Taapken MS, CG(ASCP)
Reviewed and Interpreted by: Julie Leana Cox, PhD, FACMG

A signed copy of this report is available upon request.

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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 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**

info@wicell.org (888) 204-1782

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

**Sample Report:** 12779-STR

Sample Name on Tube: 12779-STR

 $52.9 \text{ ng/}\mu\text{L}$ , (A260/280=2.17)

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute

**Ouality Department** 

Sample Date: N/A **Receive Date:** 09/05/17

**Assav Date:** 09/12/17

File Name: 170913 STR WMR

**Report Date:** 09/15/17 **Revised:** 09/21/17

STR Locus	STR Locus STR Genotype Repeat #							
FGA	<b>FGA</b> 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							
TPOX								
D8S1179	7-18	12,13						
vWA	10-22	16,18						
Amelogenin	X,Y	X,Y						
Penta_D	2.2, 3.2, 5, 7-17	9,12						
CSF1PO	6-15	9,10						
D16S539	5, 8-15	9,11						
D7S820	6-14	11,11						
D13S317	7-15	9,12						
D5S818	7-16	10,12						
Penta_E	5-24	5,17						
D18S51	<b>D18S51</b> 8-10, 10.2, 11-13, 13.2, 14-27							
D21S11	<b>D21S11</b> 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	9,9.3						
D3S1358	12-20	15,17						

Results: Based on the 12779-STR cells submitted by WiCell QA dated and received on 09/05/17, this sample (Label on Tube: 12779-STR) defines the STR profile of the human stem cell line WC033i-6007-2 comprising 25 allelic polymorphisms across the 13 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human WC033i-6007-2 stem 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 12779-STR sample submitted corresponds to the WC033i-6007-2 stem 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 stem cell lines is  $\sim 2-5\%$ .

 $\mathbf{X}$  RMB

**Digitally Signed on** 

 $\mathbf{X}$  WMR

**Digitally Signed on** 

Rebecca M. Baus TRIP Laboratory, Molecular

William M. Rehrauer, PhD, Director / Co-Director UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

# Native Product Sterility Report



SAMPLE #:

17081530

DATE RECEIVED:

24-Aug-17

TEST INITIATED:

25-Aug-17

TEST COMPLETED:

08-Sep-17

SAMPLE NAME / DESCRIPTION:

WA09-RB66490 12757

WA09-RB66492 12758

WA09-RB66493 12759

WC026i-5807-3 WB66538 12760 WC032i-6007-1-WB66540 12761 WC033i-6007-2-WB66539 12762 STAN008i-165-1-DB31100 12763 STAN009i-165-2-DB31110 12764 STAN053i-149-1-DB30924 12765 STAN001i-047-1-DB31118 12766

UNIQUE IDENTIFIER:

NΔ

PRODUCT REGISTRATION:

Human iPS cells

TEST RESULTS:

WiCell

504 S Rosa Rd, Rm 101

Madison, WI 53719

	# Positives	
# Tested	(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

# Native Product Sterility Report



COMMENTS:

Sample # 17081530

REVIEWED BY Dessone

DATE USEPIT

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

Testing Performed by WiCell Lot Release Testing August 28, 2017

FORM SOP-QU-004.01 Version F Edition 02 Reported by: KR Reviewed by: JB Berthold Flash n' Glo 539

		Reading A		A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	WC033i-6007-2-WB66539 12779	84	86	85	22	22	22	0.26	Negative	
2	Positive (+) Control	165	166	165.5	17611	17643	17627	106.51	Positive	
3	Negative (-) Control	257	263	260	36	30	33	0.13	Negative	

