

## **Thaw and Culture Details**

Cell Line Name	WC032i-6007-1						
WiCell Lot Number	WB66540						
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.						
	Feeder Independent						
	Medium: mTeSR <sup>™</sup> 1						
	Matrix: Matrigel®						
Protocol WiCell Feeder Independent mTeSR <sup>™</sup> 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	WC032i-60-07-1 p10 WB66540						
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	Pass
Post-Thaw Viable Cell Recovery	WiCell	<ul> <li>≥ 15 Undifferentiated Colonies,</li> <li>≤ 30% Differentiation and</li> <li>recoverable attachment after</li> <li>passage</li> </ul>		Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Defines profile Promega		Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass

Approval Date	Quality Assurance Approval
21-September-2017	9/25/2017 RK Quality Assurance Signed by Kremers, Erik

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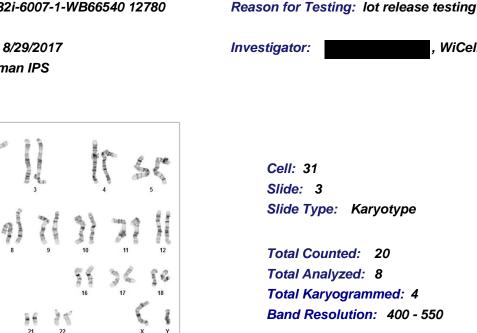
The material provided under this certificate has been subjected to the tests specified and the results and data described herein are accurate based on WiCell's reasonable knowledge and belief. Appropriate Biosafety Level practices and universal precautions should always be used with this material. For clarity, the foregoing is governed solely by WiCell's Terms and Conditions of Service, which can be found at http://www.wicell.org/privacyandterms.



Cell Line Gender: Male

WiCell CDM

Date Reported: Tuesday, September 12, 2017 Cell Line: WC032i-6007-1-WB66540 12780 Passage#: 10 Date of Sample: 8/29/2017 Specimen: Human IPS Results: 46,XY



#### 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

A signed copy of this report is available upon request.

Date:	Sent Bv:	Sent To:	QC Review By:
Dale	Sent by	Sent 10	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

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

Sample Report: 12780-STR Sample Name on Tube: 12780-STR 54.8 ng/μL, (A260/280=2.04) Sample Type: Cells Cell Count: ~2 million cells

**Requestor:** WiCell Research Institute Quality Department WiCell® info@wicell.org (888) 204-1782

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	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, 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	
<b>TH01</b>	4-9,9.3,10-11,13.3	
D3S1358	12-20	

<u>Results:</u> Based on the 12780-STR cells submitted by WiCell QA dated and received on 09/05/17, this sample (Label on Tube: 12780-STR) defines the STR profile of the human stem cell line WC032i-6007-1 comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human WC032i-6007-1 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 12780-STR sample submitted corresponds to the WC032i-6007-1 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 ~2-5%.

X RMB Digitally Signed on 09/15/17	X WMR Digitally Signed on 9/15/17
TRIP Laboratory, Molecular	, PhD, Director / Co-Director UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Testing was accomplished by analysis of human genetic polymorphisms at STR loci. This methodology has not yet been approved by the FDA and is for investigational use only. Acknowledge TRIP in your publications, posters & presentations. For details, see: http://www.pathology.wisc.edu/research/trip/acknowledging TRIP agrees to maintain the confidentiality of any information provided to it in connection with its performance of this STR analysis on the same conditions as set forth in paragraph 2 of WiCell's Terms and Conditions of Service (http://www.wicell.org/media.acux/1a429b84-2b54-44a4-8ad8-5c05db93dd8a).

# Native Product Sterility Report



		SAMPLE #:	17081530
WiCell		DATE RECEIVED:	24-Aug-17
504 S Rosa Rd, Rm 101		TEST INITIATED:	25-Aug-17
Madison, WI 53719		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: **PRODUCT REGISTRATION:**

TEST RESULTS:	# Tested	# Positives (Growth)	- Control
	10	0	2 Negatives

NA

Human iPS cells

**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 #: **TEST METHODOLOGY:** 

000053

**USP** - Direct Transfer

# Native Product Sterility Report



COMMENTS: Sample # 17081530

50-**REVIEWED BY** 

DATE USEPI7

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		Α	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	<b>Comments/Suggestions</b>
1	WC032i-6007-1-WB66540 12780	83	81	82	32	30	31	0.38	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	

