

## **Thaw and Culture Details**

Cell Line Name	MCW033i-A7195
WiCell Lot Number	WB67156
Parent Material	MCW033i-A7195-DB66338
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 <sup>™</sup> -E8 <sup>™</sup>
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p18 These cells were cultured for 17 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 18.
Date Vialed	08-April-2019
Vial Label	MCW033i-A7195 p18 WB67156
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
Karyotype by G-banding	<b>Results:</b> 46,XY,i(20)(q10)[4]/46,XY[16] <b>Interpretation:</b> This is an abnormal karyotype. There is an isochromosome of the long (q) arm of chromosome 20 in four of twenty cells examined. This imbalance results in trisomy for 20q and monosomy for 20p. Gain of chromosome 20q 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	<ul> <li>≥ 15 Undifferentiated Colonies prior to passage,</li> <li>≤ 30% Differentiation prior to passage, and recoverable attachment after passage</li> </ul>	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

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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.



## **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<sup>®</sup> Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

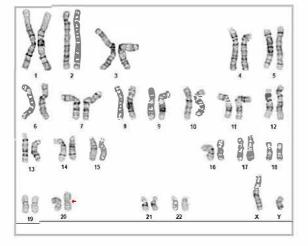
Approval Date	Quality Assurance Approval
04-June-2020	644/2020 XIG WG Quality Assurance Signed by: Gay, Janna

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Date Reported: Monday, May 06, 2019 Cell Line: MCW033i-A7195-WB67156 14568 Passage#: 18 Date of Sample: 4/26/2019 Specimen: Human IPS Results: 46, XY,i(20)(q10)[4]/46, XY[16]

Cell Line Sex: Male Reason for Testing: lot release testing Investigator: , WiCell



Cell: 8 Slide: G01 Slide Type: Karyotype Total Counted: 20 Total Analyzed: 8 Total Karyogrammed: 5 Band Resolution: 375 - 475

#### Interpretation:

This is an abnormal karyotype. There is an isochromosome of the long (q) arm of chromosome 20 in four of twenty cells examined. This imbalance results in trisomy for 20q and monosomy for 20p. Gain of chromosome 20q 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: Reviewed and Interpreted by:	, ,			
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



characterization@wicell.org (608) 316-4145

Receive Date: 05/13/19 Report Sent: 05/21/19 Assay Date: 05/14/19 File Name: STR 190515 wmr Report Date: 05/20/19

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular) https://research.pathology.wisc.edu/trip-home/ (608) 265-9168

### Sample Report:

14568-STR Sample Name on Tube: 14568-STR 207.1 ng/μL, (A260/280=1.94) Sample Type: Cells Cell Count: ~2 million cells Requestor: WiCell Research Institute Quality Assurance Department

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 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 14568-STR cells submitted by WiCell QA dated and received on 05/13/19, this sample (Label on Tube: 14568-STR) defines the STR profile of the human cell line MCW033i-A7195 comprising 25 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human MCW033i-A7195cell 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 14568-STR sample submitted corresponds to the MCW033i-A7195 cell line and was not contaminated with any other human 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 cell lines is ~2-5%.

X RMB Digitally Signed on 05/21/19	X WMR Digitally Signed on 05/21/19
, BA	, PhD, Director / Co-Director
TRIP Laboratory, Molecular	UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Testing was accomplished by analysis of human genetic polymorphisms at STR loci. This methodology has not vet been approved by the FDA and is for investigational use only. Acknowledge TRIP in your publications, posters & presentations. For details, see: https://research.pathology.wisc.edu/acknowledging-trip/ 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 https://www.wicell.org/media.acux/ca76d97c-862a-43f3-b02a-ab2d1e619100. 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.

# Native Product Sterility Report



			SAMPLE #	: 19050849
WiCell			DATE RECEIVED	: 09-May-19
504 S Rosa Road, Rm 101			TEST INITIATED	: 15-May-19
Madison, WI 53719			TEST COMPLETED	6-14-5-4-1-5-1-5-5-5-5-5-5-5-5-5-5-5-5-5-
SAMPLE NAME / DESCRIPTION:	MCW057i-A3286	WB67153	14647	
SAME LE NAME / DESCRIPTION.	B2M-/Etrimer Elf1	WB67155	14648	
	Reaction of the second s			
	MCW033i-A7195	WB67156	14649	
	MCW061i-40000329			
	MCW059i-40001067			
	MCW070i-40002330			
	B2M-/-Elf1 WE	367160 14	653	
	JHU210i WB671	62 14654		
	MCW052i-40001760	WB67163	3 14655	
	B2M-/Edimer Elf1	WB67155	14656	
	MCW063i-40000190	WB67164	14657	
	MCW065i-40001296	WB67165	14658	
	B2M-/Edimer(preCre	e)Elf1 WB6	57166 14659	
	MCW069i-40000268	WB67167	14660	
	MCW093i-40000435	WB67168	3 14661	
	PACS1003i-GM27161	DB67161	14662	
	STAN011i-123-1	DB31129	14663	
	STAN012i-123-2	DB31135	14664	
	STAN015i-178-1	DB31094	14665	
	STAN016i-178-2	DB31107	14666	
UNIQUE IDENTIFIER:	NA			

TEST RESULTS:	# Tested	# Positives (Growth)	- Control
	20	0	2 Negatives

TEST	SUMMARY:	

EST SUMMARY:	# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
	20	TSB	40	20-25	14
	20	FTG	40	30-35	14
REFERENCE		Processed accord	ting to LAR-003. St	arility Test Procedu	ITO

REFERENCE:

PD #:

Processed according to LAB-003: Sterility Test Procedure 000053 USP - Direct Transfer

STERIS Laboratories 9303 West Broadway Ave Brooklyn Park, MN 55445

**TEST METHODOLOGY:** 

## Native Product Sterility Report



COMMENTS: NA

REVIEWED BY Mac

DATE 29MAY19

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 PCR-based assay performed by WiCell

PCR-based assay performed by WiCell Lot Release Testing 26Apr19

#	Sample Name	Result	Comments/Suggestions
1	MCW033i-A7195-WB67156 14568	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
2	Positive (+) Control		
3	Negative (-) Control		

Reported by:	, Research Specialist-Cytogenetics		
Reviewed by:	, Cell Culture Specialist		
Date:	Sent By:	Sent To	

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A gel image is available upon request.