

# **Certificate of Analysis**

### **Thaw and Culture Details**

Cell Line Name	UWWC1-DS1		
WiCell Lot Number	WB68233		
Parent Material	UWWC1-DS1- WB21343		
Provider/Client	University of Wisconsin – Dr. Anita Bhattacharyya		
Banked By	WiCell		
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 1 well of a 3 wells plate using mTeSR <sup>™</sup> 1 and Cultrex <sup>®</sup> .		
Protocol	WiCell Feeder Independent Pluripotent	Stem Cell Protocol	
Culture Platform Prior to Freeze	Medium: mTeSR <sup>™</sup> 1	Matrix: Cultrex®	
Passage Number	p30 Cells were cultured for 29 passages prior to freeze. Plated cells at thaw should be labeled passage 30.		
Date Vialed	20-JANUARY-2024		
Vial Label	p30 WB68233  Store at -135C or colder Made in United States Research Use Only		
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.		



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### **Results**

Test Description	Test Provider	Test Method	Test Specification	Result	
	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report	
Karyotype	Karyotype  Results: 47,XY,+21[20]  Interpretation: This is an abnormal karyotype. An extra copy of chromosome 21 (trisomy 21) is present in twenty of twenty cells examined. No other clonal abnormalities were detected at the stated band level of resolution.				
	This report has be	een updated to remove a reference to testir	ng the parental line on 23Feb24.		
Post-Thaw Viable Cell Recovery	WiCell	Thaw using specified Thaw & Culture Recommendations	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	Pass	
Identity by STR	WiCell	PowerPlex 16 HS System by Promega <sup>™</sup>	Consistent with STR profile of deposited cell line	See Report	
Mycoplasma	WiCell	PCR	Amplification of mycoplasma specific DNA detected with negative result	Pass	
Sterility	Steris	Native Product Direct Transfer using FTM and TSB (ST/07)	Negative for growth following 14 days of culture	Pass	

Approval Date	WiCell Quality Assurance Approval	
17-September-2024	9/17/5824  X DLG  DLG  W.Cell Quality Assurance Signed by Ginham, Dawn	

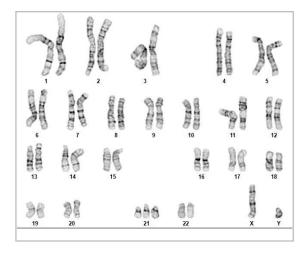


### Updated Chromosome Analysis Report: 100470

Date Reported: February 23, 2024

Cell Line: UWWC1-DS1-WB68233

Submitted Passage #: 30 Date of Sample: 1/31/2024 Specimen: Human IPSC Results: 47,XY,+21[20]



Cell Line Sex: Male

Reason for Testing: LOT\_RELEASE

WiCell Stem Cell Bank, WiCell Investigator:

> Cell: 54 Slide: G03

Slide Type: Karyotype

Total Counted: 20 Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 425 - 450

#### **Updated Interpretation:**

This is an abnormal karyotype. An extra copy of chromosome 21 (trisomy 21) is present in twenty of twenty cells examined. No other clonal abnormalities were detected at the stated band level of resolution.

This report has been updated to remove a reference to testing the parental line on 23Feb24.

Completed by: Pam Mill

Reviewed and Interpreted by:	vanessa Horner, PhD, FACMG		
Familia mada a a a a a			
For internal use only			
Date:		_ Sent To:	QC Review By:
Limitations: This assay allows for microscopic vis	sualization of numerica	al and structural chromosome abnorma	lities. The size of structural abnormality that can be detecte

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**

Form SOP-89.01 Version 12.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 31Jan24 STR Amplification Date: 06Feb24

Sample Name	UWWC1-DS1-WB68233 p30		
WiCell CTR No. <sup>1</sup>	100470		
FGA			
TPOX			
D8S1179	_		
vWA	Identifying information has		
Amelogenin	been redacted to		
Penta_D	protect donor confidentiality. If		
CSF1PO	more information		
D16S539	is required, please contact		
D7S820	info@wicell.org		
D13S317	-		
D5S818			
Penta_E			
D18S51			
D21S11			
TH01			
D3S1358			
Allelic Polymorphisms	31		
Matches*	71618 (96.88%), 92696 (93.75%), 17989 (93.75%), 21511		
Comments	<sup>2</sup> Tri Allelic Pattern		

\*Note: The STR profile of the following sample is a 100% match for the given sample/samples unless otherwise specified.

<sup>&</sup>lt;sup>1</sup> CTR No.: Characterization Test Request Number; also known as a laboratory accessioning number.



## **Short Tandem Repeat**

Form SOP-89.01 Version 12.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 31Jan24 STR Amplification Date: 06Feb24

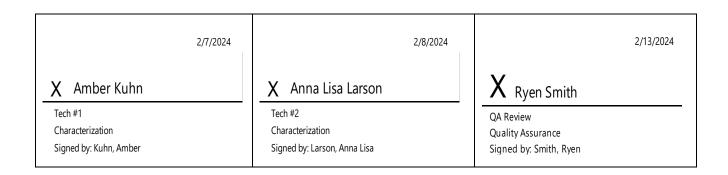
<u>Assay Description:</u> STR analysis is performed using the PowerPlex 16 HS System by Promega<sup>TM</sup>. Results are reported as 13 CODIS STR markers, Amelogenin for gender determination and two low-stutter, highly discriminating pentanucleotide STR markers.

Results: The genotypic profiles comprise a range of 31 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> 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. These results suggests that the cells submitted correspond to the cell lines as named and were 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 ~2-4%.

<sup>2</sup>Tri-allelic Pattern: A tri-allelic pattern was detected at the FGA and D21S11 loci of sample 100470. This observation could be the result of chromosomal gains and/or amplifications in this cell line.



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# Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell Stem Cell Bank, WiCell 05Feb24

Form SOP-83.01 Version 5.0

Sample Name	Result	Interpretation
UWWC1-DS1-WB68233 p30 (100470)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Assay Description				
Sample is tested for presence of mycoplasma using EZ-PCR <sup>TM</sup> Mycoplasma Detection Kit (Sartorius).				

2/5/2024	2/5/2024	2/5/2024
X Julia Graham	X Amber Kuhn	X Andy Arntz
Tech #1 Characterization Signed by: Graham, Julia	Tech #2 Characterization Signed by: Kuhn, Amber	QA Review Quality Assurance Signed by: Arntz, Andy

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A gel image is available upon request.

# Native Product Sterility Report



SAMPLE #:

24020041

WiCell

DATE RECEIVED:

01-Feb-24

504 S Rosa Road, Rm 101

TEST INITIATED:

02-Feb-24

Madison, WI 53719

TEST COMPLETED:

16-Feb-24

SAMPLE NAME / DESCRIPTION:

WA-AICS-0075-085-WB68226 WA-AICS-0011-WB68228 WA-AICS-0012-WB68229 WA-AICS-0052-003-WB68230 WA-AICS-0013-WB68231 WA-AICS-0016-WB68232 UWWC1-DS1-WB68233 STAN146i-286C2-DB44174

STAN140i-280C2-DB44174 STAN152i-307C2-DB38135 STAN145i-286C1-DB44171

**UNIQUE IDENTIFIER:** 

N/A

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

**AUTHORIZED BY** 

DATE 20FEB 2024

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.