

## **Certificate of Analysis**

### **Thaw and Culture Details**

Cell Line Name	STAN241i-558C4			
WiCell Lot Number	WB68153			
Parent Material	STAN241i-558C4-DB38008			
Provider/Client	Stanford University – Laboratory of Dr.	Thomas Quetermous		
Banked By	WiCell			
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into mTeSR <sup>™</sup> 1 and Cultrex <sup>®</sup> .	3 wells of a 6 well plate using		
Protocol	WiCell Feeder Independent Pluripotent	Stem Cell Protocol		
Culture Platform Prior to Freeze	Medium: mTeSR <sup>™</sup> 1	Matrix: Cultrex <sup>®</sup>		
Passage Number	p17 Cells were cultured for 16 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 17.			
Date Vialed	22-June-2023			
Vial Label	STAN241i-558C4 p17 WB68153			
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.			

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.



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### **Results**

<b>Test Description</b>	Test Provider	Test Method	Test Specification	Result	
	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report	
Karyotype       Results: 46,XX         Interpretation:       This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.					
Post-Thaw Viable Cell Recovery	WiCell	Thaw using specified Thaw & Culture Recommendations	<ul> <li>≥ 15 Undifferentiated Colonies prior to passage,</li> <li>≤ 30% Differentiation prior to passage,</li> <li>and recoverable attachment after passage</li> </ul>	Pass	
Identity by STR	WiCell	PowerPlex 16 HS System by Promega <sup>™</sup>	Defines 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	

### **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.

- RNA-Seq

- Whole Genome Sequencing

Approval Date	WiCell Quality Assurance Approval	
30-November-2023	11/20/2023 X HEB HEB WCell Quality Assume Signed by: Brune: Heley	

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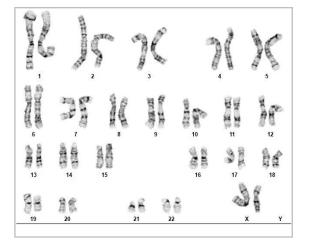
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Chromosome Analysis Report: 099311

Date Reported: Tuesday, October 31, 2023 Cell Line: STAN241i-558C4-WB68153 Submitted Passage #: 17 Date of Sample: 10/24/2023 Specimen: Human IPSC Results: 46,XX Cell Line Sex: Female Reason for Testing: LOT\_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 37 Slide: G01 Slide Type: Karyotype Total Counted: 20 Total Analyzed: 8 Total Karyogrammed: 4 Band Resolution: 450 - 475

#### Interpretation:

This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.

Completed by: Reviewed and Interpreted by: Jennifer Pecos, CG(ASCP) Vanessa Horner, PhD, FACMG

For internal use only

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 or effect.



### Short Tandem Repeat

Form SOP-89.01 Version 11.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 24Oct23, 26Oct23, 27Oct23 STR Amplification Date: 07Nov23

Sample Name	UCSD012i-5-5- WB68191 p27	WA09- WB68167 p26	UCSD087i-6-4- WB68192 p20	WIC-WA09-MB- 005 p28	STAN241i- 558C4- WB68153 p17	STAN240i- 558C3- WB68154 p17	
WiCell CTR No. <sup>1</sup>	99362	99356	99355	99312	99311	99310	
FGA							
ΤΡΟΧ							
D8S1179			Identifying				
vWA			information been redact				
Amelogenin			protect dong	or			
Penta_D			confidentiali more inform				
CSF1PO			is required,				
D16S539			please conta info@wicell.				
D7S820							
D13S317							
D5S818							
Penta_E							
D18S51							
D21S11							
TH01							
D3S1358							
Allelic Polymorphisms							
Matches*	72377	See Matches Comment	72176	See Matches Comment	99310	99311	
Comments							

\*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

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 24Oct23, 26Oct23, 27Oct23 STR Amplification Date: 07Nov23 Form SOP-89.01 Version 11.0

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

**<u>Results</u>**: The genotypic profiles comprise a range of 24-29 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** 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.

**Sensitivity:** Sensitivity limits for detection of STR polymorphisms unique to either this or other human cell lines is ~2-4%.

Matches: Samples 99356 and 99312 are a 100% match to each other and to 97827, 97437, 97371, 97171, 96184, 96183, 95823, 95822, 93654, 93595 and additional profiles. Additional matches can be provided upon request.

11/14/2023	11/14/2023	11/14/2023
X Amber Kuhn	X Anna Lisa Larson	X Dawn Graham
Tech #1	Tech #2	QA Review
Characterization	Characterization	Quality Assurance
Signed by: Kuhn, Amber	Signed by: Larson, Anna Lisa	Signed by: Graham, Dawn

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### Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell Stem Cell Bank, WiCell 01Nov23

Sample Name	Result	Interpretation
STAN240i-558C3-WB68154 p17 (99310)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN241i-558C4-WB68153 p17 (99311)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WIC-WA09-MB-005 p28 (99312)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
UCSD087i-6-4-WB68192 p20 (99355)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WA09-WB68167 p26 (99356)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
UCSD012i-5-5-WB68191 p27 (99362)	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>™</sup> Mycoplasma Detection Kit (Sartorius).

11/2/2023	11/2/2023	11/2/2023
X John Raff	X Kaylie Petersen	X Dawn Graham
Tech #1 Characterization Signed by: Raff, John	Tech #2 Characterization Signed by: Petersen, Kaylie	QA Review Quality Assurance Signed by: Graham, Dawn

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A gel image is available upon request.

## Native Product Sterility Report



	SAMPLE #:	23070508
WiCell	DATE RECEIVED:	13-Jul-23
504 S Rosa Road, Rm 101	TEST INITIATED:	17-Jul-23
Madison, WI 53719	TEST COMPLETED:	31-Jul-23

SAMPLE NAME / DESCRIPTION: JHU189i-DB41401 JHU192i-DB36782 JHU215i-DB36857 JHU227i-DB37013 JHU230i-DB37025 JHU081i-DB41140 JHU150i-DB41359 STAN240i-558C3-WB68154 STAN241i-558C4-WB68153 H1 OCT4-EGFP-2A-C.3-WB68155 H1 MYH11-NLuc-tdTomato-WB68133 UCSD247i-LQT1-2-WB68158

#### UNIQUE IDENTIFIER:

N/A

TEST RESULTS:	# Tested	# Positives (Growth)	- Control		
	12	0	2 Negatives		
TEST SUMMARY:	# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
	12	TSB	40	20-25	14
	12	FTG	40	30-35	14
REFERENCE:		Processed accord	ling to LAB-003: St	erility Test Procedu	ire
PD #:		000053			
TEST METHODOLOG	GY:	USP - Direct Trar	nsfer		
COMMENTS:	NA				

e AUTHORIZED BY

DATE OLAUG 2027

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.

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