

# **Certificate of Analysis**

### **Thaw and Culture Details**

Cell Line Name	STAN151i-303C3		
WiCell Lot Number	DB35736		
Provider/Client	Stanford University – Laboratory of Dr.	Thomas Quetermous	
Banked By	Icahn School of Medicine at Mount Sina	i Stem Cell Core	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate using TeSR <sup>™</sup> Plus and Matrigel <sup>®</sup> . WiCell recommends thawing using ROCK Inhibitor for best results.		
Protocol	WiCell Feeder Independent Pluripotent	Stem Cell Protocol	
Culture Platform Prior to Freeze	Medium: mTeSR <sup>™</sup> 1	Matrix: Matrigel <sup>®</sup>	
Passage Number	p15 Cells were cultured for 15 passages prior to freeze and post colony selection. Plated cells at thaw should be labeled passage 16.		
Date Vialed	22-February-2016		
Vial Label	ISMMS 303i C3 P15 PEC 022216		
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.



# **Certificate of Analysis**

		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	Results: 46,XX			
	<i>Interpretation:</i> T resolution.	his is a normal karyotype; no clonal abnorm	nalities were detected at the stated band leve	lof
Post-Thaw Viable Cell Recovery	WiCell	Thaw using specified Thaw & Culture Recommendations	Recoverable attachment after passage	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
- Infinium<sup>®</sup> Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

Approval Date	WiCell Quality Assurance Approval		
26-August-2021	B/26/2021 XIG VIGEI Quality Assurance Signed by: Gay, Jenna		

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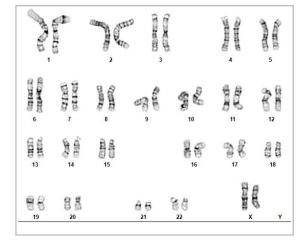
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Chromosome Analysis Report: 086540

Date Reported: Thursday, June 17, 2021 Cell Line: STAN151i-303C3-DB35736 Submitted Passage #: 18 Date of Sample: 6/4/2021 Specimen: Human IPSC Results: 46,XX Cell Line Sex: Female Reason for Testing: LOT\_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 35 Slide: G01 Slide Type: Karyotype Total Counted: 20 Total Analyzed: 8 Total Karyogrammed: 4 Band Resolution: 450 - 525

#### Interpretation:

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

Completed by: Reviewed and Interpreted by:

Conditions of Service are null and void and of no legal force or effect.

Erica Schutter, CG(ASCP) Vanessa Horner, PhD, FACMG

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



### Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 03Jun21, 04Jun21 STR Amplification Date: 07Jun21

STAN249i-STAN151i-STAN248i-Sample Name 617C2-303C3-617C1-PENN122i-627-DB35491 p15 DB35736 p18 DB35488 p15 5-DB36632 p15 Label on tube 86519 86540 86541 86542 FGA TPOX D8S1179 vWA Amelogenin Penta\_D Identifying CSF1PO information has been redacted to D16S539 protect donor confidentiality. If D7S820 more information D13S317 is required, please contact D5S818 Penta E D18S51 D21S11 TH01 D3S1358 Allelic Polymorphisms 27 27 27 28 Matches\* Comments

Form SOP-89.01 Version 5.0

\*Note: The STR profile of the following sample is an exact match for the given sample/samples.



Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 03Jun21, 04Jun21 STR Amplification Date: 07Jun21 Form SOP-89.01 Version 5.0

<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 27-28 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.

Sensitivity: Sensitivity limits for detection of STR polymorphisms unique to either this or other human cell lines is ~2-5%.

	6/9/2021		6/10/2021		6/10/2021
${\sf X}$ Callum Walker		${\sf X}$ Amber Kuhn		${\sf X}$ Dawn Graham	
Tech #1 Characterization Signed by: Walker, Callum		Tech #2 Characterization Signed by: Kuhn, Amber		QA Review Quality Assurance Signed by: Graham, Dawn	

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Raw data is available upon request.



### Mycoplasma Assay Report

6/3/2021

PCR-based assay performed by WiCell WiCell 01Jun21

6/2/2021

Sample Name	Result	Interpretation
STAN151i-303C3-DB35736 p16 (86448)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN248i-617C1-DB35488 p14 (86449)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN249i-617C2-DB35491 p14 (86450)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

6/1/2021

X Hannah Rueth

Tech #1 Characterization Signed by: Rueth, Hannah X Callum Walker

Tech #2 Characterization Signed by: Walker, Callum

X Dawn Graham

QA Review Quality Assurance Signed by: Graham Dawn

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A gel image is available upon request.

## Native Product Sterility Report



		SAMPLE #:	21070812
WiCell		DATE RECEIVED:	14-Jul-21
504 S Rosa Road, Rm 101		TEST INITIATED:	27-Jul-21
Madison, WI 53719		TEST COMPLETED:	10-Aug-21
SAMPLE NAME / DESCRIPTION:	CREM017i-SS19-1-WB67673		
	PENN042i-258-12-WB67671		
	UCSD239i-APP2-1-WB67672		
	STAN151i-303C3-DB35736		
	STAN248i-617C1-DB35488		
	STAN249i-617C2-DB35491		
	WA01-WB67657		
	WA01-WB67656		
	STAN366i-282C2-WB67655		
	SCRP5803i-DB42982		
	SCRP6101i-DB42990		
	SCRP6904i-DB43007		
	SCRP7301i-DB43010		
	HVRDi001-A-WB67674		
	SCRP8105i-DB43117		
	SCRP8305i-DB43120		
	SCRP8503i-DB43126		
	SCRP8601i-DB43129		
	SCRP8717i-DB43132		
	SCRP8901i-DB43135		
UNIQUE IDENTIFIER:	N/A		

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

FEST SUMMARY:	# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
	20	TSB	40	20-25	14
	20	FTG	40	30-35	14
		<b>B</b> 1			

**REFERENCE:** 

PD #:

**TEST METHODOLOGY:** 

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

## Native Product Sterility Report



COMMENTS: Sample # 21070812

REVIEWED BY

DATE 13pug Lor

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.