



Certificate of Analysis

Thaw and Culture Details

Cell Line Name	SCRIP8305i
WiCell Lot Number	DB43120
Provider	The Scripps Research Institute – Laboratory of Dr. Eric Topol
Banked By	Gladstone Institutes – Laboratory of Dr. Sheng Ding
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 4 wells of a 6 well plate using mTeSR™1 and Matrigel®. WiCell recommends thawing using ROCK Inhibitor for best results.
Culture Platform	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol
Passage Number	p10 These cells were cultured for 10 passages after colony picking prior to freeze. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialled	20-May-2016
Vial Label	HE00812, Passage 10, May-20-2016
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

<i>Test Description</i>	<i>Test Provider</i>	<i>Test Method</i>	<i>Test Specification</i>	<i>Result</i>
Karyotype	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
	<p>Results: 45,X[20]</p> <p>Interpretation: This is an abnormal karyotype. There is only one sex chromosome, an X, in all cells examined. This analysis cannot determine the cell line sex. No other clonal abnormalities were detected at the stated band level of resolution.</p> <p>Comparison of this karyotype with the karyotype of the source (parental) specimen may be informative regarding the significance and origin of the chromosomal abnormality.</p>			
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™	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



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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.

- HumanCore Exome Kit
- Methylation
- Tra1-60 marker expression via flow cytometry
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA^{EX})

Approval Date	Quality Assurance Approval
12-September-2016	<div>7/30/2025</div> <div>X HEB</div> <div>HEB</div> <div>Quality Assurance</div> <div>Signed by: Bruner, Haley</div>

Date Reported: March 29, 2025

Cell Line: SCRP8305i-DB43120

Submitted Passage #: 13

Date of Sample: 3/17/2025

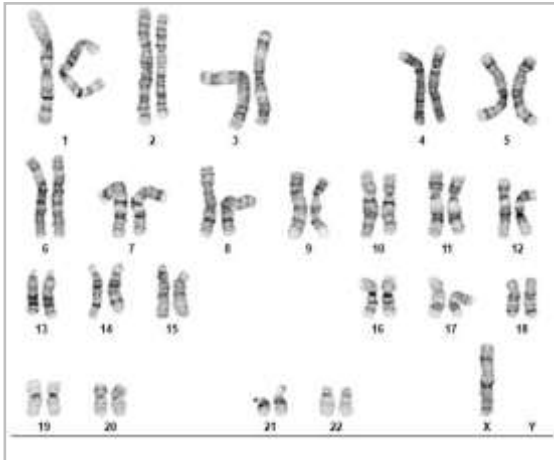
Specimen: Human iPSC

Results: 45,X[20]

Cell Line Sex: Unknown

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 20

Slide: G02

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 425 - 525

Interpretation:

This is an abnormal karyotype. There is only one sex chromosome, an X, in all cells examined. This analysis cannot determine the cell line sex. No other clonal abnormalities were detected at the stated band level of resolution.

Comparison of this karyotype with the karyotype of the source (parental) specimen may be informative regarding the significance and origin of the chromosomal abnormality.

Completed by: Kate Bird, CG(ASCP)

Reviewed and Interpreted by: Xiangqiang Shao, 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 are null and void and of no legal force or effect.



Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell

Sample Receipt Date: 17Mar25

STR Amplification Date: 24Mar25

Form SOP-89.01

Version 14.0

Sample Name	SCRP8305i- DB43120 p13	SCRP6101i- DB42990 p12
WiCell CTR No. ¹	106449	106448
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org	
TPOX		
D8S1179		
vWA		
Amelogenin		
Penta_D		
CSF1PO		
D16S539		
D7S820		
D13S317		
D5S818		
Penta_E		
D18S51		
D21S11		
TH01		
D3S1358		
Allelic Polymorphisms		
Matches ²		
Comments		

¹ CTR No.: Characterization Test Request Number; also known as a laboratory accessioning number.

² The STR profile of the sample(s) listed are a 100% match for the given sample unless otherwise specified.



Mycoplasma Assay Report

PCR-based assay performed by WiCell
WiCell Stem Cell Bank, WiCell
26Mar25

Form SOP-83.01
Version 7.0

Sample Name	Result	Interpretation
SCR8305i-DB43120 p15 (106579)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
SCR6101i-DB42990 p14 (106578)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
SCR5603i-DB42976 p16 (106577)	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™ Mycoplasma Detection Kit (Sartorius).

3/26/2025	3/27/2025	3/28/2025
<div>X John Raff</div> <div>Tech #1 Characterization Signed by: Raff, John</div>	<div>X Michael Mussar</div> <div>Tech #2 Characterization Signed by: Mussar, Michael</div>	<div>X Dawn Graham</div> <div>QA Review Quality Assurance Signed by: Graham, Dawn</div>

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A gel image is available upon request.



Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell

Sample Receipt Date: 17Mar25

STR Amplification Date: 24Mar25

Form SOP-89.01

Version 14.0

Assay Description: Short Tandem Repeat (STR) analysis is performed using the PowerPlex® 16 HS System by Promega™. Results are reported as 13 CODIS STR markers, Amelogenin for sex determination and two low-stutter, highly discriminating pentanucleotide STR markers.

Results: The genotypic profiles comprise a range of 26-27 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 suggest 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%.

3/27/2025	3/31/2025	4/1/2025
X John Raff	X Amber Kuhn	X Dawn Graham
Tech #1 Characterization Signed by: Raff, John	Tech #2 Characterization Signed by: Kuhn, Amber	QA Review Quality Assurance Signed by: Graham, Dawn

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Native Product Sterility Report



WiCell
504 S Rosa Road, Rm 101
Madison, WI 53719

SAMPLE #: 21070812
DATE RECEIVED: 14-Jul-21
TEST INITIATED: 27-Jul-21
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
SCR5803i-DB42982
SCR6101i-DB42990
SCR6904i-DB43007
SCR7301i-DB43010
HVRD001-A-WB67674
SCR8105i-DB43117
SCR8305i-DB43120
SCR8503i-DB43126
SCR8601i-DB43129
SCR8717i-DB43132
SCR8901i-DB43135

UNIQUE IDENTIFIER: N/A

TEST RESULTS:

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

TEST 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 according to LAB-003: Sterility Test Procedure

PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

Native Product Sterility Report



COMMENTS: Sample # 21070812

REVIEWED BY 

DATE 13 Aug 2021

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.