Thaw and Culture Details

Cell Line Name	**CREM050i-BR23-1**
WiCell Lot Number	**DB66768**
Provider	Boston University – Laboratory of Dr. Martin Steinberg
Banked By	Boston University – Laboratory of Dr. Gustavo Mostoslavsky
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR™1 Protocol
Passage Number	p13 These cells were cultured for 13 passages prior to freeze and post colony picking. Therefore, plated cells at thaw should be labeled passage 14.
Date Vialed	27-October-2014
Vial Label	hiPSC BR-SP-23-1 p13 10-27-14 AS
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
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	Recoverable attachment after passage	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

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.

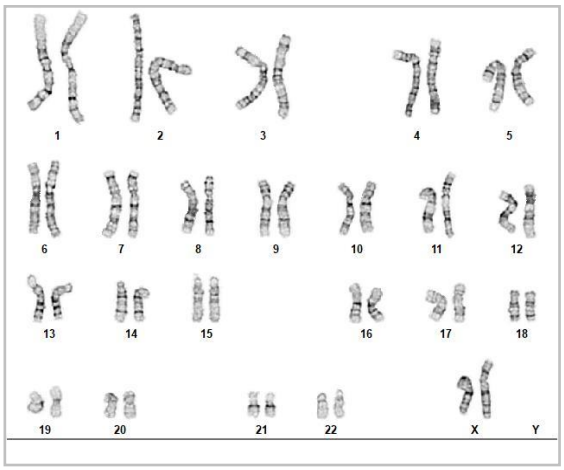
- Digital Genome Sequencing
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA^{EX})

Approval Date	Quality Assurance Approval
25-June-2018	4/23/2020 X JKG JKG Quality Assurance Signed by: Gay, Jenna

Chromosome Analysis Report: 080874

Date Reported: Wednesday, March 18, 2020
Cell Line: CREM050i-BR23-1-DB66768
Passage#: 15
Date of Sample: 3/11/2020
Specimen: Human IPSC
Results: 46,XX

Cell Line Sex: Female
Reason for Testing: LOT_RELEASE
Investigator: WiCell Stem Cell Bank, WiCell



Cell: 8
Slide: G03
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 475 - 550

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

Completed by: [redacted], CG(ASCP)
Reviewed and Interpreted by: [redacted], Ph.D.

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".

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

WiCell
Your Lab Partner
characterization@wicell.org
(608) 316-4145

Short Tandem Repeat Analysis

Receive Date: 03/23/20
Requestor: WiCell Characterization
Report Sent: 04/21/20

Label on tube	MCW087i-U7112-WB67434 p.21 (80872)	CREM049i-BR21-1-DB66767 p.16 (80873)	CREM050i-BR23-1-DB66768 p.15 (80874)	WISCe011-A-40-WB67443 p.9 (80875)	SCRP0203i-DB42677 p.11 (80886)	CREM058i-BR43-1-DB66777 p.10 (80895)	CREM054i-BR33-1-DB66773 p.7 (80898)
Label on Report							
conc (ng/µL)							
A260/280							
Assay Date							
File Name							
FGA							
TPOX							
D8S1179							
vWA							
Amelogenin							
Penta_D							
CSF1PO							
D16S539							
D7S820							
D13S317							
D5S818							
Penta_E							
D18S51							
D21S11							
TH01							
D3S1358							
Allelic Polymorphisms							
Matches*							
Comments							

Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact WiCell's Technical Support.

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Short Tandem Repeat Analysis

Label on tube	Elf1-WB67433 p.16 (80899)	CREM024i-SS36-1-WB67440 p.12 (80952)	SCRP0302i-DB42682 p.14 (80953)	STAN312i-906C3-DB44421 p.16 (81039)
Label on Report				
conc (ng/µL)				
A260/280				
Assay Date				
File Name				
FGA				
TPOX				
D8S1179				
vWA				
Amelogenin				
Penta_D				
CSF1PO				
D16S539				
D7S820				
D13S317				
D5S818				
Penta_E				
D18S51				
D21S11				
TH01				
D3S1358				
Allelic Polymorphisms				
Matches*				
Comments				

Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact WiCell's Technical Support.

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Short Tandem Repeat Analysis

Results: Based on the DNA submitted by WiCell Characterization Department dated and received on 03/23/20, these samples define the STR profiles of the human cell lines as indicated by name. The genotypic profiles comprise a range of 26-30 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 ~2-5%.

[1] For sample 80874 a microvariant exists at the D3S1358 loci with a size less than 11 but undefined due to the lack of sizing standard prior to 11 at this loci.

Acknowledge TRIP in your publications, posters & presentations. For details, see: https://research.pathology.wisc.edu/acknowledging-trip/

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

X *RMB* **Digitally Signed on 04/21/20**
[redacted], *BA*
TRIP Laboratory, Molecular

X *WMR* **Digitally Signed on 04/21/20**
[redacted], *PhD, Director / Co-Director*
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report

STERIS

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

SAMPLE #: 20030283
DATE RECEIVED: 05-Mar-20
TEST INITIATED: 06-Mar-20
TEST COMPLETED: 20-Mar-20

SAMPLE NAME / DESCRIPTION:

MCW021i-50001743 WB67429
MCW084i-U2053 WB67427
MCW115i-U2143 WB67428
SCRP5402i WB67430
MCW102i-UR117 WB67432
MCW108i-U2165 WB67431
CREM048i-BR3-1 DB66766
CREM049i-BR21-1 DB66767
CREM050i-BR23-1 DB66768
CREM061i-BT1-1 DB66780
CREM062i-BT2 DB66781
Elf1 WB67433
STAN133i-215C1 DB44608
STAN134i-215C2 DB44611
STAN291i-827C1 DB44304
STAN292i-827C2 DB44307
STAN251i-637C1 DB44371
STAN311i-906C1 DB44418
STAN312i-906C3 DB44421
STAN360i-465C2 DB44240
STAN088i-060C1 DB35739
STAN164i-352C1 DB35976
STAN165i-352C5 DB35979
STAN230i-533C1 DB35783
STAN231i-533C2 DB35786
(see remainder in comments)

UNIQUE IDENTIFIER: NA

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
30	1	2 Negatives

Native Product Sterility Report

STERIS

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
30	TSB	40	20-25	14
30	FTG	40	30-35	14

REFERENCE: Processed according to LAB-003: Sterility Test Procedure

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: Sample # 20030283

Sample labeled ISMMS 827i C2P16 AP 030416 in Media Type TSB is positive.

Sample Name/Description continued:

SCRP0302i	DB42682
SCRP0104i	DB42002
SCRP0202i	DB42005
SCRP0203i	DB42677
SCRP0307i	DB42014

REVIEWED BY _____ DATE 20 MAR 2020

Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell

20Mar20

Sample Name	Result	Comments/Suggestions
WISCe011-A-40-WB67443 (80870)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CREM024i-SS36-1-WB67440 (80954)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CREM048i-BR3-1-DB66766 (81033)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CREM049i-BR21-1-DB66767 (81034)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CREM050i-BR23-1-DB66768 (81035)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CREM054i-BR33-1-DB66773 (81036)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CREM055i-BR37-1-DB66774 (81037)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
GFAP-R88C-DB67436 (81038)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [redacted]**, Assistant Cell Culture Specialist**

Reviewed by: [redacted]**, Assistant Research Specialist**

A gel image is available upon request.