



Thaw and Culture Details

Cell Line Name	CREM054i-BR33-1
WiCell Lot Number	DB66773
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 2 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR™1 Protocol
Passage Number	p5 These cells were cultured for 5 passages prior to freeze and post colony picking. Therefore, plated cells at thaw should be labeled passage 6.
Date Vialied	01-December-2014
Vial Label	hiPSC BR-SP-33-1 p5/T 12-1-14 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	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	<p style="text-align: right;">4/23/2020</p> <p>X JKG _____ JKG Quality Assurance Signed by Gay, Jenna</p>

Date Reported: Wednesday, March 18, 2020

Cell Line Sex: Female

Cell Line: CREM054i-BR33-1-DB66773

Reason for Testing: LOT_RELEASE

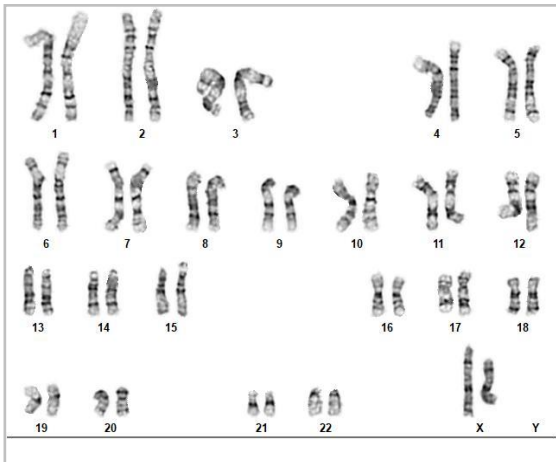
Passage#: 7

Date of Sample: 3/13/2020

Investigator: WiCell Stem Cell Bank, WiCell

Specimen: Human iPSC

Results: 46,XX



Cell: 18

Slide: G01

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 425 - 500

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".

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 Analysis

Receive Date: 03/23/20

Report Sent: 04/21/20

Requestor: WiCell Characterization

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)	SCRPO203i-DB42677 p.11 (80886)	CREM058i-BR43-1-DB66777 p.10 (80895)	CREM054i-BR33-1-DB66773 p.7 (80898)
Label on Report	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact WiCell's Technical Support .						
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							



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



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

Short Tandem Repeat Analysis

Label on tube	Elf1-WB67433 p.16 (80899)	CREM024i-SS36-1- WB67440 p.12 (80952)	SCRPO302i-DB42682 p.14 (80953)	STAN312i-906C3-DB44421 p.16 (81039)
Label on Report	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact WiCell's Technical Support .			
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				



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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

██████████, BA

TRIP Laboratory, Molecular

X *WMR*

Digitally Signed on 04/21/20

██████████, PhD, Director / Co-Director

UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Testing was accomplished by analysis of human genetic polymorphisms at STR loci. This methodology has not yet been approved by the FDA and is for investigational use only.

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Native Product Sterility Report



WiCell
504 S. Rosa Rd, Rm 101
Madison, WI 53719

SAMPLE #: 18070439
DATE RECEIVED: 10-Jul-18
TEST INITIATED: 12-Jul-18
TEST COMPLETED: 26-Jul-18

SAMPLE NAME / DESCRIPTION: JHU224i WB66855 13853
PENN009i-57-52 WB66859 13854
CREM053i-BR31-1 DB66772 13855
CREM054i-BR33-1 DB66773 13856
CREM055i-BR37-1 DB66774 13857
CREM056i-BR39-1 DB66775 13858
CREM057i-BR41-1 DB66776 13859
CREM058i-BR43-1 DB66777 13860
CREM059i-BR45-1 DB66778 13861
CREM060i-BR51-1 DB66779 13862

UNIQUE IDENTIFIER: NA
PRODUCT REGISTRATION: Other: Human IPS cells

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
METHOD VALIDATION / PD #: 000053
TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: "Reported as" per packing slip.

REVIEWED BY *[Signature]*

DATE 27 JUL 18

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.



Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell

20Mar20

FORM SOP-CH-048.01

Version B Edition 01

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

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A gel image is available upon request.