Thaw and Culture Details

Cell Line Name	**CREM007i-SS5-1**
WiCell Lot Number	**WB67636**
Parent Material	CREM007i-SS5-1-DB47983
Provider	Boston University – Laboratory of Dr. Martin Steinberg
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate using mTeSR™Plus and Matrigel®.
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol
Culture Platform Prior to Freeze	Feeder Independent
	Medium: mTeSR™Plus
	Matrix: Matrigel®
Passage Number	p19 These cells were cultured for 18 passages prior to freeze and post colony selection. WiCell adds +1 to the passage number at freeze to best represent the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 19.
Date Vialed	30-March-2021
Vial Label	CREM007i-SS5-1 p19 WB67636
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-49	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-99	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	Pass
Identity by STR	WiCell	PowerPlex 16 HS System by Promega	Defines STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-79	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.

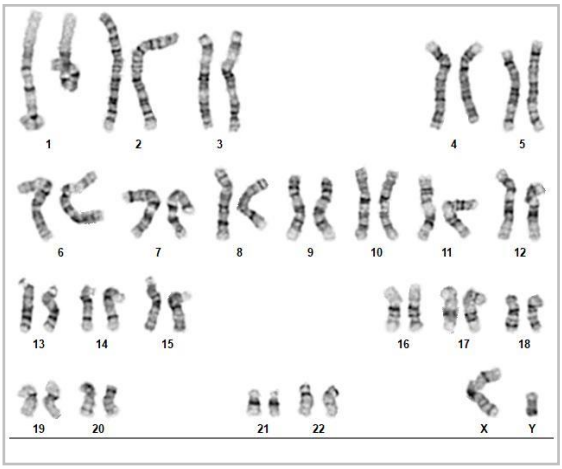
- Digital Genome Sequencing
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA^{EX})

Approval Date	Quality Assurance Approval
19-May-2021	5/19/2021 X JKG JKG Quality Assurance Signed by: Gay, Jenna

Chromosome Analysis Report: 085628

Date Reported: Tuesday, April 13, 2021
Cell Line: CREM007i-SS5-1-WB67636
Submitted Passage #: 19
Date of Sample: 4/5/2021
Specimen: Human IPSC
Results: 46,XY

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



Cell: 1
Slide: G03
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]
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".

Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell
Samples Received: 30Mar21, 05Apr21
STR Amplification Date: 06Apr21

Sample Name	SCRP2102i-WB67635 p16	SCRP0601i-WB67634 p25	MIN25i-35613.SF-1-WB67632 p17	CREM007i-SS5-1-WB67636 p19
Label on tube	85501	85502	85503	85628
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	27	27	26	27
Matches*			84551	
Comments	[1]See Triploid Genotype Comment			

**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: 30Mar21, 05Apr21
STR Amplification Date: 06Apr21

Form SOP-89.01
Version 3.0

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 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]**Triploid Genotype:** A triploid genotype was detected at the FGA loci of sample 85501. This observation could be the result of chromosomal gain, loss, and/or amplification in this cell line.

4/12/2021

X [redacted]

Tech #1
Characterization
Signed by: [redacted]

4/13/2021

X [redacted]

Tech #2
Characterization
Signed by: [redacted]

4/14/2021

X [redacted]

QA Review
Quality Assurance
Signed by: [redacted]

Raw data is available upon request.

Native Product Sterility Report

STERIS

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

SAMPLE #: 21040928
DATE RECEIVED: 15-Apr-21
TEST INITIATED: 26-Apr-21
TEST COMPLETED: 10-May-21

SAMPLE NAME / DESCRIPTION:
CREM007i-SS5-1-WB67636
MIN24i-35613.B-WB67637
SCRP2201i-WB67638
SCRP3202i-DB42875
SCRP3304i-DB42878
SCRP3401i-DB42881
SCRP3601i-DB42893
SCRP3803i-DB42899
SCRP4102i-DB42905
SCRP4201i-DB42908

UNIQUE IDENTIFIER: N/A

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
PD #: 000053
TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: NA

REVIEWED BY _____ DATE 11 MAY 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.

Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell Stem Cell Bank

06Apr21

FORM SOP-83.01
Version 2.0

Sample Name	Result	Interpretation
SCRP2102i-WB67635 p16 (85501)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
SCRP0601i-WB67634 p25 (85502)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN25i-35613.SF-1-WB67632 p17 (85503)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CREM007i-SS5-1-WB67636 p19 (85628)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

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

A gel image is available upon request.