# Thaw and Culture Details

| | |
|---|---|
| Cell Line Name | CREM029i-SS44-1 |
| WiCell Lot Number | DB48061 |
| Provider | Boston University – Laboratory of Dr. Martin Steinberg |
| Banked By | Boston University - Laboratory of Dr. Gustavo Mostoslavsky |
| Thaw and Culture Recommendations | The WiCell recommends thawing 1 vial into 1 well of a 6 well plate. |
| Culture Platform | Feeder Dependent |
| | Medium: hESC Medium (KOSR) |
| | Matrix: MEF |
| Protocol | WiCell Feeder Dependent Protocol |
| Passage Number | p3<br>These cells were cultured for 3 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 Vialed | 11-December-2012 |
| Vial Label | hiPSC<br>US44-1<br>P3<br>12.11.12<br>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.<br>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 profile | Pass |
| Sterility | Steris | ST/07 | Negative | Pass |
| Mycoplasma | WiCell | SOP-QU-004 | 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.

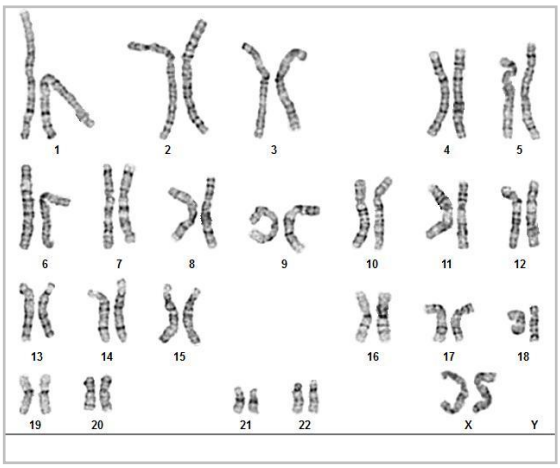
- Digital Genome Sequencing
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA$^{EX}$)

| Approval Date | Quality Assurance Approval |
| --- | --- |
| 05-December-2016 | 10/25/2018<br>X JKG<br>JKG<br>Quality Assurance<br>Signed by: Gay, Jenna |

# Chromosome Analysis Report: 072437

**Date Reported:** Tuesday, July 17, 2018
**Cell Line:** CREM029i-SS44-1-DB48061 13834
**Passage#:** 6
**Date of Sample:** 7/10/2018
**Specimen:** Human IPS
**Results:** 46,XX

**Cell Line Sex:** Female
**Reason for Testing:** lot release testing
**Investigator:** [redacted] WiCell




**Cell:** 6
**Slide:** G02
**Slide Type:** Karyotype

**Total Counted:** 20
**Total Analyzed:** 8
**Total Karyogrammed:** 4
**Band Resolution:** 475 - 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] PhD, FACMG

*A signed copy of this report is available upon request.*

**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".*

TRIPath
HISTOLOGY - IHC - MOLECULAR - IMAGING
Department of Pathology and Laboratory Medicine
TRIP Laboratory (Molecular)
http://www.pathology.wisc.edu/research/trip

# Short Tandem Repeat Analysis

WiCell®
info@wicell.org
(888) 204-1782

**Sample Report:**
13834-STR
**Sample Name on Tube:** 13834-STR
81.8 ng/µL, (A260/280=1.78)
**Sample Type:** Cells
**Cell Count:** ~2 million cells

**Requestor:**
WiCell Research Institute
Quality Department

**Sample Date:** N/A
**Receive Date:** 07/09/18
**Assay Date:** 07/11/18
**File Name:** STR 180712 wmr
**Report Date:** 07/18/18

| STR Locus | STR Genotype Repeat # | STR Genotype |
|---|---|---|
| **FGA** | 16–18,18.2,19,19.2,20,20.2,21,21.2,22, 22.2, 23, 23.2, 24, 24.2, 25, 25.2, 26–30, 31.2, 43.2, 44.2,45.2, 46.2 | Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact WiCell's Technical Support. |
| **TPOX** | 6-13 | |
| **D8S1179** | 7-18 | |
| **vWA** | 10-22 | |
| **Amelogenin** | X,Y | |
| **Penta_D** | 2.2, 3.2, 5, 7-17 | |
| **CSF1PO** | 6-15 | |
| **D16S539** | 5, 8-15 | |
| **D7S820** | 6-14 | |
| **D13S317** | 7-15 | |
| **D5S818** | 7-16 | |
| **Penta_E** | 5-24 | |
| **D18S51** | 8-10, 10.2, 11-13, 13.2, 14-27 | |
| **D21S11** | 24,24.2,25,25.2,26-28,28.2,29,29.2, 30, 30.2,31, 31.2,32,32.2,33,33.2, 34,34.2,35,35.2,36-38 | |
| **TH01** | 4-9,9.3,10-11,13.3 | |
| **D3S1358** | 12-20 | |

**Results:** **Based on the 13834-STR cells submitted by WiCell QA dated and received on 07/09/18, this sample (Label on Tube: 13834-STR) defines the STR profile of the human stem cell line CREM029i-SS44-1 comprising 29 allelic polymorphisms across the 15 STR loci analyzed.**

**Interpretation:** **No STR polymorphisms other than those corresponding to the human CREM029i-SS44-1 stem cell line were detected and 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. This result suggests that the 13834-STR sample submitted corresponds to the CREM029i-SS44-1 stem cell line and was not contaminated with any other human stem 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 stem cell lines is ~2-5%.**

X *RMB* **Digitally Signed on 07/19/18**

[redacted] *BA*
*TRIP Laboratory, Molecular*

X *WMR* **Digitally Signed on 07/19/18**

[redacted] *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.
Acknowledge TRIP in your publications, posters & presentations. For details, see: *http://www.pathology.wisc.edu/research/trip/acknowledging*
TRIP agrees to maintain the confidentiality of any information provided to it in connection with its performance of this STR analysis on the same conditions as set forth in paragraph 2 of WiCell's Terms and Conditions of Service (http://www.wicell.org/media.acux/1a429b84-2b54-44a4-8ad8-5c05db93dd8a).

# Native Product Sterility Report

STERIS

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

SAMPLE #: 18081822
DATE RECEIVED: 23-Aug-18
TEST INITIATED: 29-Aug-18
TEST COMPLETED: 12-Sep-18

SAMPLE NAME / DESCRIPTION:
UCSD027i-9-2 WB57332 13953
WA07 CY66889 13954
LUEL7159i-16 WB66875 13955
UCSD028i-9-3 WB66873 13956
CREM003i-BU3C2 WB66874 13957
CREM018i-SS24-1 WB66883 13958
LUEL5748i-2 WB66878 13959
WC036i-0498-1 WB66882 13960
WC036i-0498-1 WB66884 13961
CREM024i-SS36-1 WB66886 13962
LUEL8360i-2 WB66888 13963
LUEL7991i-1 WB66891 13964
LUEL5748i-3 WB66894 13965
LUEL7153i-1 WB66895 13966
LUEL7673i-2 WB66898 13967
LUEL7149i-1 WB66899 13968
CREM029i-SS44-1 DB48061 13969
CREM030i-SS45-1 DB48064 13970
JHU012i-2 DB36196 13971
JHU017i DB36203 13972

UNIQUE IDENTIFIER: NA

PRODUCT REGISTRATION: Other: Human iPS cells

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

METHOD VALIDATION / PD #: 000053

# Native Product Sterility Report

STERIS

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: NA

REVIEWED BY _____ DATE 17SEP18

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 Detection Assay Report

Testing Performed by WiCell

Lot Release Testing

June 28, 2018

FORM SOP-QU-004.01
Version G Edition 02
Reported by: AP
Reviewed by: JB
BD Monolight 180

| # | Sample Name | Reading A | | A Ave | Reading B | | B Ave | Ratio B/A | Result | Comments/Suggestions |
|---|---|---|---|---|---|---|---|---|---|---|
| | | RLU1 | RLU2 | | RLU1 | RLU2 | | | | |
| 1 | CREM029i-SS44-1-DB48061 13834 | 387 | 393 | 390 | 166 | 168 | 167 | 0.43 | Negative | |
| 2 | Positive (+) Control | 333 | 337 | 335 | 45221 | 45526 | 45374 | 135.44 | Positive | |
| 3 | Negative (-) Control | 667 | 700 | 683.5 | 75 | 74 | 74.5 | 0.11 | Negative | |