

### **Thaw and Culture Details**

| Cell Line Name                      | UCSD040i-33-1   |  |  |  |  |  |  |  |
|-------------------------------------|---|--|--|--|--|--|--|--|
| WiCell Lot Number                   | WB61158   |  |  |  |  |  |  |  |
| Provider                            | University of California, San Diego – Dr. Kelly Frazer  |  |  |  |  |  |  |  |
| Banked By                           | WiCell  |  |  |  |  |  |  |  |
| Thaw and Culture<br>Recommendations | WiCell recommends thawing 1 vial into 4 wells of a 6 well plate.  |  |  |  |  |  |  |  |
| Culture Platform                    | Feeder Independent  |  |  |  |  |  |  |  |
|                                     | Medium: mTeSR™1   |  |  |  |  |  |  |  |
| Matrix: Matrigel®                   |   |  |  |  |  |  |  |  |
| Protocol                            | WiCell Feeder Independent mTeSR™1 Protocol  |  |  |  |  |  |  |  |
| Passage Number                      | p18 These cells were cultured for 17 passages prior to freeze and post reprogramming. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.   |  |  |  |  |  |  |  |
| Date Vialed                         | 13-March-2017   |  |  |  |  |  |  |  |
| Vial Label                          | UCSD040i-33-1<br>p18<br>WB61158   |  |  |  |  |  |  |  |
| 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     |  |  |  |  |
|-----------------------------------|---|---|--------------------|------------|--|--|--|--|
|                                   | WiCell  | SOP-CH-003  | Expected karyotype | See Report |  |  |  |  |
|                                   | Results: 46,XY Nonclonal Findings: 47,XY,+8   |   |                    |            |  |  |  |  |
| Karyotype by G-banding            | <i>Interpretation:</i> This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution. There is a nonclonal finding, listed above, which contains a chromosomal aberration (trisomy 8) recurrently acquired in cultures of this cell type. An additional twenty cells were examined for this chromosomal aberration; it was not observed. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism. |   |                    |            |  |  |  |  |
| Post-Thaw Viable Cell<br>Recovery | WiCell  | WiCell  SOP-CH-305  SOP-CH-305  ≥ 15 Undifferentiated C ≤ 30% Differentiatio recoverable attachme passage |                    |            |  |  |  |  |
| Identity by STR                   | UW Translational Research Initiatives in Pathology Laboratory   | PowerPlex 16 HS<br>System by<br>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.

- Illumina® HumanCoreExome BeadChip Array
- RNA-Seq
- Flow Cytometry (SSEA-4, Tra 1-81)
   Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

| Approval Date | Quality Assurance Approval                                    |  |  |  |
|---------------|---|--|--|--|
| 17-April-2017 | 8/20/2018  X JKG  JKG  Qualify Assurance Signed by Gay, Jenna |  |  |  |



### Chromosome Analysis Report: 072242

Date Reported: Tuesday, July 03, 2018

Cell Line: UCSD040i-33-1-WB61158 13837

Passage#: 18

Date of Sample: 6/25/2018 Specimen: Human IPS

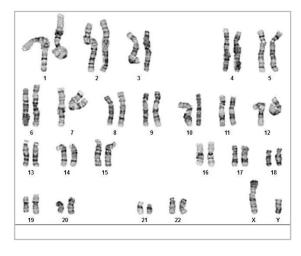
Results: 46,XY

Nonclonal Findings: 47,XY,+8



Reason for Testing: lot release testing

Investigator: WiCell



Cell: 37 Slide: G03

Slide Type: Karyotype

Total Counted: 40
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.

There is a nonclonal finding, listed above, which contains a chromosomal aberration (trisomy 8) recurrently acquired in cultures of this cell type. An additional twenty cells were examined for this chromosomal aberration; it was not observed. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

Completed by: , CG(ASCP)

Reviewed and Interpreted by: 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".

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

**HISTOLOGY - IHC - MOLECULAR - IMAGING** 

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

http://www.pathology.wisc.edu/research/trip

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

**Sample Report:** 

13837-STR

Sample Name on Tube: 13837-STR

 $105.1 \text{ ng/}\mu\text{L}, (A260/280=1.95)$ 

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 07/02/18 Assay Date: 07/09/18

File Name: STR 1820710 wmr

**Report Date:** 07/16/18

| STR Locus  | ocus STR Genotype Repeat #  |                                    |  |  |  |  |  |  |  |
|------------|---|------------------------------------|--|--|--|--|--|--|--|
| 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        |  |  |  |  |  |  |  |
| TPOX       | OX 6-13<br>1179 7-18<br>VA 10-22<br>ogenin X,Y  |                                    |  |  |  |  |  |  |  |
| D8S1179    |   |                                    |  |  |  |  |  |  |  |
| vWA        |   |                                    |  |  |  |  |  |  |  |
| Amelogenin |   |                                    |  |  |  |  |  |  |  |
| Penta_D    | 2.2. 3.2. 5. 7-17   |                                    |  |  |  |  |  |  |  |
| CSF1PO     | 6-15  | please, contact WiCell's Technical |  |  |  |  |  |  |  |
| D16S539    | \$539 5, 8-15<br>6-14   |                                    |  |  |  |  |  |  |  |
| D7S820     |   |                                    |  |  |  |  |  |  |  |
| 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   |                                    |  |  |  |  |  |  |  |

<u>Results:</u> Based on the 13837-STR cells submitted by WiCell QA dated and received on 07/02/18, this sample (Label on Tube: 13837-STR) defines the STR profile of the human stem cell line UCSD040i-33-1 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD040i-33-1 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 13837-STR sample submitted corresponds to the UCSD040i-33-1 stem cell line and was not contaminated with any other human stem cells or a significant amount of mouse feeder layer cells.

<u>Sensitivity:</u> 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 07/16/18

BA
TRIP Laboratory, Molecular

BA
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

### Native Product Sterility Report



SAMPLE #:

17121102

DATE RECEIVED:

14-Dec-17

**TEST INITIATED:** 

14-Dec-17

**TEST COMPLETED:** 

02-Jan-18

SAMPLE NAME / DESCRIPTION:

WiCell

504 S Rosa Rd., Rm 101

Madison, WI 53719

UCSD033i-41-2 WB54901 13153 UCSD037i-26-2 WB65027 13154

UCSD039i-14-3 WB57650 13155

UCSD040i-33-1 WB61158 13156

UCSD041i-33-2 WB60323 13157

UCSD043i-47-1 WB61824 13158

UCSD045i-49-1 WB62417 13159

UCSD046i-50-1 WB60581 13160

UCSD047i-51-1 WB54782 13161

UCSD049i-53-1 WB57867 13162

UCSD114i-69-1 WB55346 13163

UCSD150i-11-1 WB58932 13164 UCSD154i-90-1 WB58798 13165

UCSD164i-96-1 WB58713 13166

UCSD180i-27-2 WB60894 13167

.....

UCSD204i-26-1 WB62522 13168 UCSD216i-114-1 WB65031 13169

UCSD220i-118-1 WB60019 13170

iPS (Foreskin)-4 WB66699 13171

WISC015i-SC7 DB66675 13172

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS cells

**TEST RESULTS:** 

| # Tested | # Positives<br>(Growth) | - Control   |
|----------|-------------------------|-------------|
| 20       | 0                       | 4 Negatives |

**TEST SUMMARY:** 

| # Samples | Media Type | Volume (mL) | Incubation<br>Temperature<br>(° C) | Incubation<br>Duration<br>(Days) |
|-----------|------------|-------------|------------------------------------|----------------------------------|
| 20        | TSB        | 40          | 20-25                              | 15                               |
| 20        | FTG        | 40          | 30-35                              | 15                               |

REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

METHOD VALIDATION / PD #:

000053

## Native Product Sterility Report



TEST METHODOLOGY:

USP - Direct Transfer

**COMMENTS:** 

NA

REVIEWED BY

DATE 035AN18

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

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

|   |                             | Reading A |      | A     | Read  | ling B | В     | Ratio  |          |                      |
|---|-----------------------------|-----------|------|-------|-------|--------|-------|--------|----------|----------------------|
| # | Sample Name                 | RLU1      | RLU2 | Ave   | RLU1  | RLU2   | Ave   | B/A    | Result   | Comments/Suggestions |
| 1 | UCSD040i-33-1-WB61158 13837 | 218       | 218  | 218   | 84    | 83     | 83.5  | 0.38   | 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 |                      |

