# Thaw and Culture Details

| | |
|---|---|
| Cell Line Name | **MCW042i-40001401** |
| WiCell Lot Number | **WB67385** |
| Parent Material | MCW042i-40001401-DB66347 |
| Provider | Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel |
| Banked By | WiCell |
| Thaw and Culture Recommendations | WiCell recommends thawing 1 vial into 3 wells of a 6 well plate. |
| Culture Platform | Feeder Independent |
| | Medium: TeSR™-E8™ |
| | Matrix: Matrigel® |
| Protocol | WiCell Feeder Independent E8 Medium Protocol |
| Passage Number | p15<br>These cells were cultured for 14 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 15. |
| Date Vialed | 13-January-2020 |
| Vial Label | MCW042i-40001401<br>p15<br>WB67385 |
| 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 | ≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and 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.

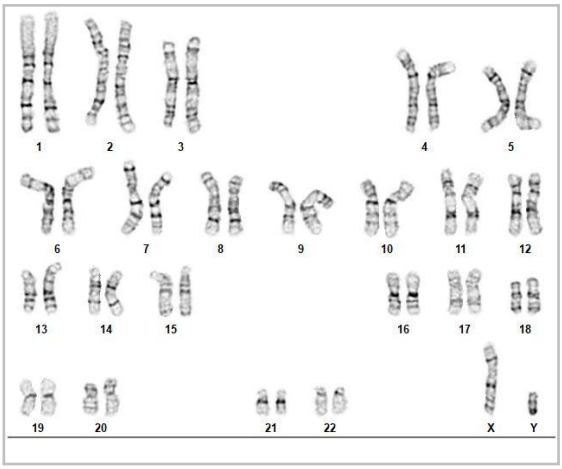
- Tra1-60 marker expression
- mRNA expression by qPCR
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA$^{EX}$)

| Approval Date | Quality Assurance Approval |
|---|---|
| 12-March-2020 | 3/12/2020<br>X JKG<br>JKG<br>Quality Assurance<br>Signed by: Gay, Jenna |

# Chromosome Analysis Report: 080265

**Date Reported:** Friday, February 14, 2020
**Cell Line:** MCW042i-40001401-WB67385
**Passage#:** 16
**Date of Sample:** 2/6/2020
**Specimen:** Human IPSC
**Results:** 46,XY

**Cell Line Sex:** Male
**Reason for Testing:** LOT_RELEASE
**Investigator:** WiCell CDM, WiCell




**Cell:** 3
**Slide:** G01
**Slide Type:** Karyotype

**Total Counted:** 20
**Total Analyzed:** 8
**Total Karyogrammed:** 4
**Band Resolution:** 450 - 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], PhD, FACMG

**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 Analysis

TRIPath
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

**Sample Report:**
MCW042i-40001401-WB67385 p.16 D01 (80265)
**Sample Name on Tube:** MCW042i-40001401-WB67385 p.16 D01 (80265)
26.7 ng/µL, (A260/280=1.58)
**Sample Type:** DNA
**Cell Count:** N/A

**Requestor:**
WiCell Research Institute
Characterization Department

**Receive Date:** 02/11/20
**Report Sent:** 02/14/20
**Assay Date:** 02/11/20
**File Name:** STR 200212 wmr
**Report Date:** 02/17/20

| 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 MCW042i-40001401-WB67385 p.16 D01 (80265) DNA submitted by WiCell Characterization Department dated and received on 02/10/20, this sample (Label on Tube: MCW042i-40001401-WB67385 p.16 D01 (80265)) defines the STR profile of the human cell line MCW042i-40001401 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.**

**Interpretation:** **No STR polymorphisms other than those corresponding to the human MCW042i-40001401cell 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 MCW042i-40001401-WB67385 p.16 D01 (80265) sample submitted corresponds to the MCW042i-40001401 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 cell lines is ~2-5%.**

X *RMB* **Digitally Signed on 02/17/20**

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

X *WMR* **Digitally Signed on 02/17/20**

[redacted], *PhD, Director / Co-Director*
*UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory*

# Native Product Sterility Report

STERIS

| | |
|---|---|
| SAMPLE #: | 20011487 |
| DATE RECEIVED: | 23-Jan-20 |
| TEST INITIATED: | 29-Jan-20 |
| TEST COMPLETED: | 12-Feb-20 |

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

SAMPLE NAME / DESCRIPTION:

WC067i-310-17-2-33 WB67384 15235
WC068i-310-17-2-36 WB67382 15236
WC072i-226-1-2-39 WB67383 15237
MCW039i-40000473 WB67386 15238
MCW042i-40001401 WB67385 15239
MCW035i-A3267 WB67388 15240
WC064i-247-1-2-22 WB67389 15241
PENN022i-89-1 DB36532 15245
UCSD128i-7-5 WB67390 15243
PENN021i-749-4 DB36149 15244

UNIQUE IDENTIFIER: NA

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 14FEB2020

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

03Feb20

FORM SOP-CH-048.01
Version B Edition 01

| Sample Name | Result | Comments/Suggestions |
|---|---|---|
| MCW042i-40001401-WB67385 15254 (80071) | Negative | Band was not seen at 270bp, indicating the absence of mycoplasma. |
| WC070i-335-1-2-30-WB67391 15265 (80072) | Negative | Band was not seen at 270bp, indicating the absence of mycoplasma. |
| Positive (+) Control | Positive | |
| Negative (-) Control | Negative | |

**Reported by: Amber Kuhn, Assistant Research Specialist**
**Reviewed by: Hannah Rueth, Assistant Research Specialist**



*A gel image is available upon request.*