Thaw and Culture Details

Cell Line Name	WC052i-FX08-24
WiCell Lot Number	WB67321
Provider	University of Wisconsin - Dr. Anita Bhattacharyya
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	p9 These cells were cultured for 8 passages prior to freeze and post reprogramming. 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 9.
Date Vialed	29-September-2019
Vial Label	WC052i-FX08-24 p9 WB67321
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

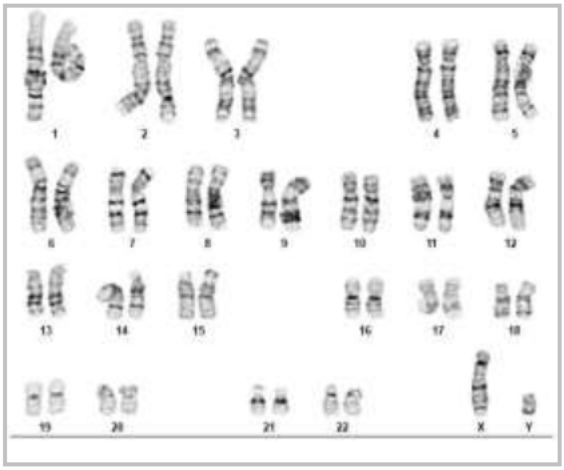
Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines STR profile	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-CH-044	Negative	Pass

Approval Date	Quality Assurance Approval
07-November-2019	11/7/2019 X JKG JKG Quality Assurance Signed by: Gay, Jenna

Chromosome Analysis Report: 078797

Date Reported: Thursday, October 24, 2019
Cell Line: WC052i-FX08-24-WB67321 15065
Passage#: 11
Date of Sample: 10/18/2019
Specimen: Human IPSC
Results: 46,XY

Cell Line Sex: Male
Reason for Testing: Lot release testing
Investigator: Alex Paguirigan, WiCell



Cell: 38
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: Timm Gonzales, CG(ASCP)
Reviewed and Interpreted by: Kaitlin C. Lenhart, 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 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:
15065-STR
Sample Name on Tube: 15065-STR
35.0 ng/µL, (A260/280=1.81)
Sample Type: Cells
Cell Count: ~2 million cells

Requestor:
WiCell Research Institute
Quality Assurance Department

Receive Date: 10/21/19
Report Sent: 10/25/19
Assay Date: 10/22/19
File Name: STR 191023 wmr
Report Date: 10/24/19

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 info@wicell.org
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 15065-STR cells submitted by WiCell QA dated and received on 10/21/19, this sample (Label on Tube: 15065-STR) defines the STR profile of the human cell line WC052i-FX08-24 comprising 25 allelic polymorphisms across the 15 STR loci analyzed.**

Interpretation: **No STR polymorphisms other than those corresponding to the human WC052i-FX08-24 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 15065-STR sample submitted corresponds to the WC052i-FX08-24 cell line and was 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%.**

X *RMB* **Digitally Signed on** 10/25/19

Rebecca M. Baus, BA
TRIP Laboratory, Molecular

X *WMR* **Digitally Signed on** 10/25/19

William M. Rehrauer, PhD, Director / Co-Director
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report

STERIS

SAMPLE #:	19100279
DATE RECEIVED:	03-Oct-19
TEST INITIATED:	08-Oct-19
TEST COMPLETED:	22-Oct-19

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

SAMPLE NAME / DESCRIPTION:

SCRP5402i	WB67303	15040
WIZ03e-H9CAGhM3Dq	WB67299	15043
SCRP4403i	DB42092	15044
SCRP4602i	DB42098	15045
SCRP6301i	DB42993	15046
SCRP6401i	DB42996	15047
WC054i-333-1-2-06	WB67308	15051
WC055i-333-1-2-09	WB67309	15052
WC056i-333-1-2-12	WB67310	15053
WC052i-FX08-24	WB67321	15056

UNIQUE IDENTIFIER: NA

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
10	1	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: Sample labeled as SCRP5402i WB67303 15040 was positive.

REVIEWED BY _____ DATE 28 OCT 19

Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell

11Oct19

FORM SOP-CH-048.01
Version A Edition 01

Sample Name	Result	Comments/Suggestions
WC061i-226-1-2-23-DB67316 15066 (78589)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC057i-108-1-2-02-WB67323 15067 (78590)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC051i-FX08-23-DB67300 15071 (78591)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC052i-FX08-24-WB67321 15065 (78592)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC059i-108-1-2-19-WB67322 15073 (78593)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC053i-FX08-25-WB67320 15072 (78594)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC062i-226-1-2-24-DB67317 15060 (78595)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: Katie Remondini, Cell Culture Specialist
Reviewed by: Molly Miles, Cell Culture Specialist

A gel image is available upon request.