Thaw and Culture Details

Cell Line Name	**MIN34i-33109.2G.2F2**
WiCell Lot Number	**WB67623**
Provider	Massachusetts General Hospital
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	p46 These cells were cultured for 45 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 46.
Date Vialed	26-January-2021
Vial Label	MIN34i-33109.2G.2F2 p46 WB67623
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

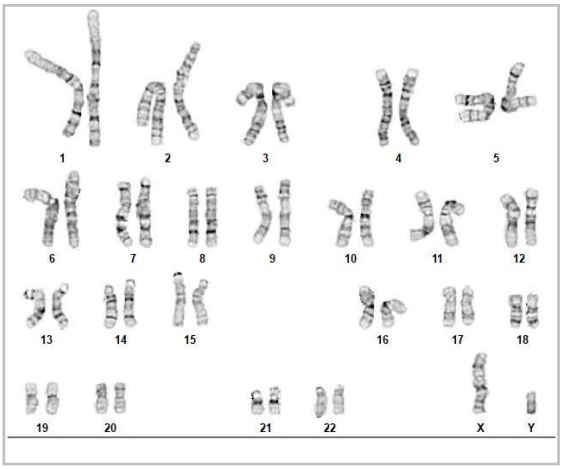
Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype by G-banding	WiCell	SOP-49	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-99	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	Pass
Identity by STR	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-79	Negative	Pass

Approval Date	Quality Assurance Approval
10-March-2021	3/10/2021 X JKG JKG Quality Assurance Signed by: Gay, Jenna

Chromosome Analysis Report: 084691

Date Reported: Friday, February 26, 2021
Cell Line: MIN34i-33109.2G.2F2-WB67623
Submitted Passage #: 46
Date of Sample: 2/4/2021
Specimen: Human Modified iPSC
Results: 46,XY

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



Cell: 34
Slide: G03
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

Requestor: WiCell Stem Cell Bank, WiCell
Samples Received: 28Jan21, 04Feb21, 05Feb21
STR Amplification Date: 08Feb21

Sample Name	GCT27C4-DB67566 p7	MIN32i-33109.2B.3A12-WB67622 p42	GCT27DC1-DB67567 p8	MIN34i-33109.2G.2F2-WB67623 p46	MIN33i-33109.2G.1A4-WB67621 p45
Label on tube	84615	84689	84690	84691	84712
FGA	[redacted]				
TPOX					
D8S1179					
vWA					
Amelogenin					
Penta_D					
CSF1PO					
D16S539					
D7S820					
D13S317					
D5S818					
Penta_E					
D18S51					
D21S11					
TH01					
D3S1358					
Allelic Polymorphisms	22	26	21	26	26
Matches*					
Comments	[1]Allelic Imbalance		[1]Allelic Imbalance		

Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org

**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: 28Jan21, 04Feb21, 05Feb21
STR Amplification Date: 08Feb21

Form SOP-89.01
Version 3.0

Results: The genotypic profiles comprise a range of 21-26 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%.

Allelic Imbalance: Allelic imbalances were observed in sample 84615 at the vWA and Penta_E loci and in sample 84690 at the vWA loci . This could be the result of chromosomal gains, losses, and/or amplifications in the cell line.

2/9/2021

X [redacted]

Tech #1
Characterization
Signed by: [redacted]

2/9/2021

X [redacted]

Tech #2
Characterization
Signed by: [redacted]

2/10/2021

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 #: 21020702
DATE RECEIVED: 11-Feb-21
TEST INITIATED: 12-Feb-21
TEST COMPLETED: 26-Feb-21

SAMPLE NAME / DESCRIPTION:
MIN28i-35833.A-WB67616
MIN31i-33363.D.3C2-WB67625
MIN29i-35833.B-WB67612
MIN30i-33109.2G-WB67613
MIN27i-35326.K-WB67617
JHU042i-WB67618
MIN33i-33109.2G.1A4-WB67621
WA09-WB67619
MIN32i-33109.2B.3A12-WB67622
MIN34i-33109.2G.2F2-WB67623

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	44

REFERENCE: Processed according to LAB-003: Sterility Test Procedure
PD #: 000053
TEST METHODOLOGY: ISO - Direct Transfer

COMMENTS: NA

REVIEWED BY _____ DATE 02 MAR 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

09Feb21

FORM SOP-83.01
Version 2.0

Sample Name	Result	Interpretation
WA09-WB67619 (84656)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN32i-33109.2B.3A12-WB67622 (84689)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN34i-33109.2G.2F2-WB67623 (84691)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN33i-33109.2G.1A4-WB67621 (84712)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [redacted]**, Senior Cell Culture Specialist**
Reviewed by: [redacted]**, Cell Culture Specialist**

A gel image is available upon request.