Thaw and Culture Details

Cell Line Name	**MIN24i-35613.B**
WiCell Lot Number	**WB67610**
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	p22 These cells were cultured for 21 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 22.
Date Vialed	21-December-2020
Vial Label	MIN24i-35613.B p22 WB67610
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
	Results: 46,X,dup(Y)(q11.23q12)[20] ***Interpretation:*** This is an abnormal karyotype. A duplication in the long (q) arm of chromosome Y is present in twenty of twenty cells examined. No other clonal abnormalities were detected at the stated band level of resolution. Comparison of this karyotype with the karyotype of the source (parental) specimen may be informative regarding the significance and origin of the chromosomal abnormality.			
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	WiCell	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
06-May-2021	5/6/2021 X JKG JKG Quality Assurance Signed by: Gay, Jenna

Chromosome Analysis Report: 084414

Date Reported: Wednesday, January 13, 2021

Cell Line: MIN24i-35613.B-WB67610

Submitted Passage #: 22

Date of Sample: 1/8/2021

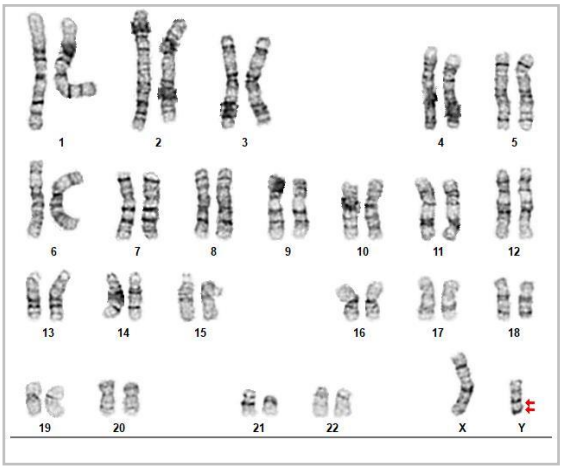
Specimen: Human IPSC

Results: 46,X,dup(Y)(q11.23q12)[20]

Cell Line Sex: Male

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Cell: 25

Slide: G01

Slide Type: Karyotype

Total Counted: 20

Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 450 - 525

Interpretation:

This is an abnormal karyotype. A duplication in the long (q) arm of chromosome Y is present in twenty of twenty cells examined. No other clonal abnormalities were detected at the stated band level of resolution.

Comparison of this karyotype with the karyotype of the source (parental) specimen may be informative regarding the significance and origin of the chromosomal abnormality.

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: 07Jan21, 08Jan21
STR Amplification Date: 11Jan21

Form SOP-89.01
Version 3.0

Sample Name	STAN245i-601C4-WB67605 p.15	STAN366i-282C2-WB67606 p.18	STAN274i-729C2-WB67604 p.17	JHU133i-DB41335 p.6	JHU042i-DB41048 p.6	MIN24i-35613.B-WB67610 p.22
Label on tube	84403	84404	84411	84412	84413	84414
FGA	Identifying information has been redacted to protect donor confidentiality. If more information is required, please contact info@wicell.org					
TPOX						
D8S1179						
vWA						
Amelogenin						
Penta_D						
CSF1PO						
D16S539						
D7S820						
D13S317						
D5S818						
Penta_E						
D18S51						
D21S11						
TH01						
D3S1358						
Allelic Polymorphisms	24	28	25	26	26	26
Matches*	75317	75318	See Matches Comment			
Comments						

**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: 07Jan21, 08Jan21
STR Amplification Date: 11Jan21

Form SOP-89.01
Version 3.0

Results: The genotypic profiles comprise a range of 24-28 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%.

Matches: Sample 84411 is a 93.55% match to 78973.

1/15/2021

X [redacted]

Tech #1
Characterization
Signed by: [redacted]

1/15/2021

X [redacted]

Tech #2
Characterization
Signed by: [redacted]

1/15/2021

X [redacted]

QA Review
Quality Assurance
Signed by: [redacted]

Native Product Sterility Report

STERIS

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

SAMPLE #: 20121700
DATE RECEIVED: 29-Dec-20
TEST INITIATED: 04-Jan-21
TEST COMPLETED: 18-Jan-21

SAMPLE NAME / DESCRIPTION:
STAN274i-729C2-WB67604
STAN366i-282C2-WB67606
STAN245i-601C4-WB67605
GCT27C4-DB67566
GCT27DC1-DB67567
MIN24i-35613.B-WB67610
MIN25i-35613.SF-1-WB67607
MIN26i-35326.I-WB67609
JHU114i-DB36253
SCRP5402i-WB67608
EMe-TPint5GC23-DB67598
EMe-TPint5GC42-DB67599
EMe-TPint5GCA5-DB67600
EMe-TPint5GCC1-DB67601
EMe-TPR208X12-DB67602
EMe-TPR208X25-DB67603
PENN026i-124-1-DB34876
PENN027i-40-2-DB36452
JHU090i-DB41248
JHU127i-DB36261

UNIQUE IDENTIFIER: N/A

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
PD #: 000053
TEST METHODOLOGY: USP - Direct Transfer

Native Product Sterility Report

STERIS

COMMENTS: Sample #20121700

REVIEWED BY _____ DATE 20JAN2021

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

13Jan21

FORM SOP-83.01
Version 2.0

Sample Name	Result	Interpretation
MIN27i-35326.K-DB67585 (84386)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN28i-35833.A-DB67586 (84387)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN29i-35833.B-DB67587 (84388)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN30i-33109.2G-DB67588 (84389)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU042i-DB41048 (84391)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU053i-DB36209 (84392)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU133i-DB41335 (84393)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU157i-DB36352 (84394)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
JHU233i-DB37038 (84395)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN245i-601C4-WB67605 (84403)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN366i-282C2-WB67606 (84404)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN274i-729C2-WB67604 (84411)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MIN24i-35613.B-WB67610 (84414)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
EMe-TPint5GCC1-DB67601 (84416)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
EMe-TPint5GCA5-DB67600 (84417)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
EMe-TPR208X12-DB67602 (84418)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
EMe-TPR208X25-DB67603 (84419)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

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

A gel image is available upon request.