Certificate of Analysis

Thaw and Culture Details

Cell Line Name	**WC053i-FX08-25**	
WiCell Lot Number	**WB73789**	
Parent Material	WC053i-FX08-25-WB67320	
Provider/Client	University of Wisconsin - Dr. Anita Bhattacharyya	
Banked By	WiCell	
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 well of a 6 well plate using TeSR™-E8™ and Matrigel®.	
Protocol	WiCell Feeder Independent Pluripotent Stem Cell Protocol	
Culture Platform Prior to Freeze	Medium: TeSR™-E8™	Matrix: Matrigel®
Passage Number	p12 Cells were cultured for 11 passages prior to freeze and post reprogramming. Plated cells at thaw should be labeled passage 12.	
Date Vialed	18-FEBRUARY-2026	
Vial Label	WC053i-FX08-25 p12 WB73789 Store at -135C or colder Made in United States Research Use Only	
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.	

Certificate of Analysis

Results

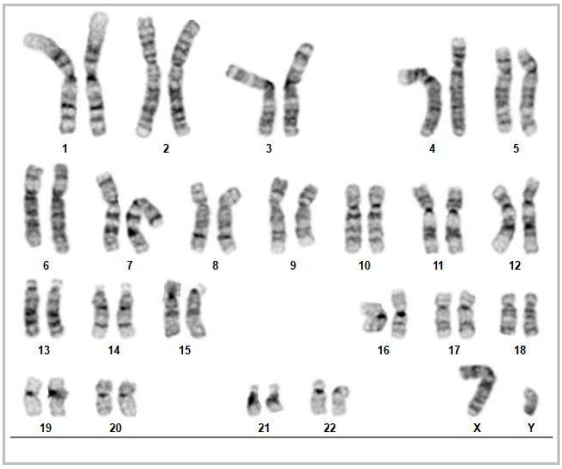
Test Description	Test Provider	Test Method	Test Specification	Result
Karyotype	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
	Results: 46,XY ***Interpretation:*** This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.			
Post-Thaw Viable Cell Recovery	WiCell	Thaw using specified Thaw & Culture Recommendations	≥ 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™	Consistent with STR profile of donor material	See Report
Mycoplasma	WiCell	PCR	Amplification of mycoplasma specific DNA detected with negative result	Pass
Sterility	Steris	Native Product Direct Transfer using FTM and TSB (ST/07)	Negative for growth following 14 days of culture	Pass

Approval Date	WiCell Quality Assurance Approval
22-April-2026	4/22/2026 X HEB HEB WiCell Quality Assurance Signed by: Bruner, Haley

Chromosome Analysis Report: 110990

Date Reported: March 26, 2026
Cell Line: WC053i-FX08-25-WB73789
Submitted Passage #: 12
Date of Sample: 3/22/2026
Specimen: Human IPSC
Results: 46,XY

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



Cell: 1
Slide: G01
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 375 - 425

Interpretation:

This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.

Completed by: Davena Lira, CG(ASCP)
Reviewed and Interpreted by: Justin Schleede, PhD, FACMG

For internal use only

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
Report Date: 30Mar26

Sample Name	WC053i-FX08-25-WB73789 p12
WiCell CTR No.[1]	110990
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	25
Matches[2]	110966, 78948, 78728, 78797, 72497, 72496
Comments	

[1] CTR No.: Characterization Test Request Number; also known as a laboratory accessioning number.
[2] The STR profile of the sample(s) listed are a 100% match for the given sample unless otherwise specified.

Short Tandem Repeat

Requestor: WiCell Stem Cell Bank, WiCell
Report Date: 30Mar26

Assay Description: Short Tandem Repeat (STR) analysis is performed using the PowerPlex® 16 HS System by Promega™. Results are reported as 13 CODIS STR markers, Amelogenin for sex determination and two low-stutter, highly discriminating pentanucleotide STR markers.

Results: The genotypic profiles comprise a range of 25 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 suggest 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 ~2-4%.

3/30/2026 X Jacob Chow Tech #1 Characterization Signed by: Chow, Jacob	4/1/2026 X Michael Mussar Tech #2 Characterization Signed by: Mussar, Michael	4/1/2026 X Manda Weber QA Approval Quality Assurance Signed by: Weber, Manda

Mycoplasma Assay Report

PCR-based assay performed by WiCell

WiCell Stem Cell Bank, WiCell

26Mar26

Form SOP-83.01
Version 7.0

Sample Name	Result	Interpretation
WC053i-FX08-25-WB73789 p12 (110990)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CBiPS-LZ6+3-PCBC-WB73791 p33 (110965)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
WC051i-FX08-23-WB73788 p8 (110966)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Assay Description
Sample is tested for presence of mycoplasma using EZ-PCR™ Mycoplasma Detection Kit (Sartorius).

3/26/2026 X Julia Graham Tech #1 Characterization Signed by: Graham, Julia	3/27/2026 X Amber Kuhn Tech #2 Characterization Signed by: Kuhn, Amber	3/27/2026 X Manda Weber QA Review Quality Assurance Signed by: Weber, Manda

A gel image is available upon request.

Native Product Sterility Report

STERIS

SAMPLE #:	26030921
DATE RECEIVED:	26-Mar-26
TEST INITIATED:	26-Mar-26
TEST COMPLETED:	09-Apr-26

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

SAMPLE NAME / DESCRIPTION:
CVCL C7VH-WB73566
CBiPS-LZ6+3-PCBC-WB73791
iPS DF19-9-11T.H-WB73706
iPS DF19-9-11T.H-WB73707
STAN255i-649C1-WB73783
STAN269i-720C2-WB73782
UCSD080i-1-13-WB73709
UCSD081i-1-14-WB73758
UCSD167i-99-1-WB73801
WC051i-FX08-23-WB73788
WC053i-FX08-25-WB73789

UNIQUE IDENTIFIER: N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
11	0	2 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
11	TSB	40	20-25	14
11	FTG	40	30-35	14

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

COMMENTS: NA

AUTHORIZED BY _____ DATE 10APR2026

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.