

Thaw and Culture Details

Cell Line Name	JFWT2					
WiCell Lot Number	WB66611					
Provider	Jain Foundation					
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	p8 These cells were cultured for 7 passages prior to freeze and post reprogramming. WiCell adds +1 the passage number to best represent the overall passage number of the cells at thaw.					
Date Vialed	26-September-2017					
Vial Label	JFWT2 p8 WB66611					
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	Pass				
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305 ≥ 15 Undifferentiated Colonies, ≤ 30% Differentiation and recoverable attachment after passage		Pass				
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Consistent with known profile	Pass				
Sterility	Steris	ST/07	Negative	Pass				
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass				



Testing Reported by Provider

This testing was performed prior to banking unless otherwise specified.

Test Description	Method	Result		
Genetic Analysis Karyotype by G-Banding		Normal Karyotype		
Pluripotency Multiplex RT-PCR to quantify endogenous expression of 7 genes. Scores generated from the analysis predict probability samples are iPSC-like.		Passing sample score ≥0.9		
Mycoplasma Commercially available mycoplasma detection kit.		Negative		
Human Virus Testing And antibodies for HIV I and HIV II. HBV CPT Code 87340; detects Hepatitis B surface antigen. HCV CPT Code 86803; Immunoassay detects Hepatitis C antibody.		Donor samples tested negative for the following human viruses. HIV I HIV II HBV HCV		
Identity Multiplex STR analysis of 9 commonly used alleles.		Match of iPS cell line to incoming donor material.		

Approval Date	Quality Assurance Approval		
14-November-2017	11/16/2017 X JKG JKG Quality Assurance Signed by Gay, Jenna		



Chromosome Analysis Report: 068704

Cell Line Gender: Male

Investigator:

Reason for Testing: lot release testing

WiCell CDM

Date Reported: Friday, October 13, 2017

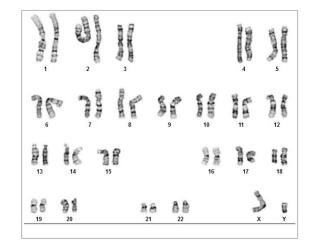
Cell Line: JFWT2-WB66611 12946

Passage#: 8

Date of Sample: 10/5/2017 Specimen: Human IPS

Results: 46,XY

Nonclonal Findings: 46,XY,idic(6)(p22.1)



Cell: 39

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 400 - 475

Interpretation:

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

There is one nonclonal finding, listed above. Nonclonal findings likely result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

Completed by: Reviewed and Interpreted by:

MS, CG(ASCP)
, PhD, FACMG

A signed copy of this report is available upon request.

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".

This assay was conducted solely for listed investigator/institution. The results may not be relied upon by any other party without the prior written consent of the Director of the WiCell Cytogenetics Laboratory. The results of this assay are for research use only. If the results of this assay are to be used for any other purpose, contact the Director of the WiCell Cytogenetics Laboratory.

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Short Tandem Repeat Analysis

WiCell® info@wicell.org (888) 204-1782

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

http://www.pathology.wisc.edu/research/trip

Sample Report: 12946-STR

Sample Name on Tube: 12946-STR

 $106.8 \text{ ng/}\mu\text{L}, (A260/280=1.88)$

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute
Ouality Department

Sample Date: N/A Receive Date: 10/09/17

Assay Date: 10/10/17

File Name: 171011 STR WMR

Report Date: 10/12/17

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					
TPOX	6-13	been redacted to					
D8S1179	7-18 VA 10-22						
vWA							
Amelogenin	X,Y	more information					
Penta_D	2.2, 3.2, 5, 7-17	is required,					
CSF1PO	6-15	please, contact WiCell's Technical					
D16S539	5, 8-15	Support.					
D7S820	6-14						
D13S317	7-15						
D5S818							
Penta_E							
D18S51							
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						

<u>Results:</u> Based on the 12946-STR cells submitted by WiCell QA dated and received on 10/09/17, this sample (Label on Tube: 12946-STR) exactly matches the STR profile of the human stem cell line JFWT2 comprising 24 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human JFWT2 stem 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 12946-STR sample submitted corresponds to the JFWT2 stem cell line and was not contaminated with any other human stem cells or a significant amount of mouse feeder layer cells.

<u>Sensitivity:</u> Sensitivity limits for detection of STR polymorphisms unique to either this or other human stem cell lines is ~2-5%.

X RMB Digitally Signed on 10/13/17	X WMR	Digitally Signed on	10/13/17
TRIP Laboratory, Molecular	UWHC Molecular	PhD, Director / Co-Direct Diagnostics Laboratory / UW	

Native Product Sterility Report



SAMPLE #:

17100438

DATE RECEIVED:

05-Oct-17

TEST INITIATED:

09-Oct-17

TEST COMPLETED:

23-Oct-17

SAMPLE NAME / DESCRIPTION:

JFWT2-WB66611 12952

JFNY3-WB66644 12953

WC010i-CMT2A-1.1-WB66612 12954 WC011i-CMT2A-1.2-WB66645 12955

UCSD104i-2-3-WB54170 12957 UCSD105i-2-4-WB54134 12958 UCSD109i-2-8-WB60929 12959 UCSD110i-2-9-WB57062 12960 UCSD111i-2-10-WB54796 12961 UCSD103i-2-2-WB57649 12963

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS cells

TEST RESULTS:

WiCell

504 S Rosa Rd, Rm 101

Madison, WI 53719

		# Positives	
L	# Tested	(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

METHOD VALIDATION / PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

NA

REVIEWED BY

DATE 2400717

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.



Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing October 3, 2017

FORM SOP-QU-004.01 Version G Edition 02 Reported by: KR Reviewed by: JB BD Monolight 180

		Read	Reading A A		Reading B		В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	JFWT2-WB66611 12946	266	288	277	104	89	96.5	0.35	Negative	
2	Positive (+) Control	439	428	433.5	32189	32447	32318	74.55	Positive	
3	Negative (-) Control	699	716	707.5	79	80	79.5	0.11	Negative	

