

## **Thaw and Culture Details**

Cell Line Name	UCSD109i-2-8					
WiCell Lot Number	WB60929					
Provider	University of California, San Diego – Dr. Kelly Frazer					
Banked By	WiCell					
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 4 wells of a 6 well plate.					
Culture Platform	Feeder Independent					
	Medium: mTeSR <sup>™</sup> 1					
	Matrix: Matrigel®					
Protocol	WiCell Feeder Independent mTeSR <sup>™</sup> 1 Protocol					
Passage Number	p32 These cells were cultured for 31 passages prior to freeze and post reprogramming. WiCell adds +1 to the passage number to best represent the overall passage number of the cells at thaw.					
Date Vialed	10-March-2017					
Vial Label	UCSD109i-2-8 p32 WB60929					
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, ≤ 30% Differentiation and recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Defines profile	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass

## **Testing Reported by Provider**

The Provider stated that some or all of the additional analyses listed below may have been performed for this cell line. For more information, publication and dbGaP links, where available, are provided on the cell line specific web page on the WiCell website.

- Illumina® HumanCoreExome BeadChip Array
- RNA-Seq
- Flow Cytometry (SSEA-4, Tra 1-81)
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)

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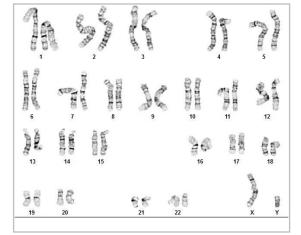
Approval Date	Quality Assurance Approval
17-April-2017	9/27/2018 XIG Vig Guality Assurance Signed by Gay, Anna

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The material provided under this certificate has been subjected to the tests specified and the results and data described herein are accurate based on WiCell's reasonable knowledge and belief. Appropriate Biosafety Level practices and universal precautions should always be used with this material. For clarity, the foregoing is governed solely by WiCell's Terms and Conditions of Service, which can be found at http://www.wicell.org/privacyandterms.



Date Reported: Monday, July 02, 2018 Cell Line: UCSD109i-2-8-WB60929 13807 Passage#: 32 Date of Sample: 6/26/2018 Specimen: Human IPS Results: 46,XY Cell Line Sex: Male Reason for Testing: lot release testing Investigator: , WiCell



Cell: 31 Slide: G03 Slide Type: Karyotype

Total Counted: 20 Total Analyzed: 9 Total Karyogrammed: 5 Band Resolution: 425 - 600

#### Interpretation:

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

There is a pericentric inversion of chromosome 9 in all cells examined. This inversion has been reported as a normal population variant.

Completed by: , CG(ASCP) Reviewed and Interpreted by: PhD, FACMG

A signed copy of this report is available upon request.

Date:	Sent By:	Sent To:	QC Review By:
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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 of this assay are for research use only. Unless otherwise mutually agreed in writing, the services provided to you hereunder by WiCell Research Institute, Inc. ("WiCell") are governed solely by WiCell's Terms and Conditions of Service, found at www.wicell.org/privacyandterms. Any terms you may attach to a purchase order or other document that are inconsistent, add to, or conflict with WiCell's Terms and Conditions of Service are null and void and of no legal force or effect.



#### HISTOLOGY - IHC - MOLECULAR - IMAGING

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular) http://www.pathology.wisc.edu/research/trip

Sample Report: 13807-STR Sample Name on Tube: 13807-STR 74.2 ng/µL, (A260/280=1.91) Sample Type: Cells Cell Count: ~2 million cells **Requestor:** WiCell Research Institute Quality Department

Short Tandem Repeat

Analysis

WiCell<sup>®</sup> info@wicell.org (888) 204-1782

Sample Date: N/A Receive Date: 07/02/18 Assay Date: 07/09/18 File Name: STR 1820710 wmr Report Date: 07/16/18

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	protect donor
vWA	10-22	confidentiality. If
Amelogenin	Х,Ү	more information
Penta_D	2.2, 3.2, 5, 7-17	is required,
CSF1PO	6-15	please, contact
D16S539	5, 8-15	WiCell's Technical Support.
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	
<b>TH01</b>	4-9,9.3,10-11,13.3	
D3S1358	12-20	

<u>Results:</u> Based on the 13807-STR cells submitted by WiCell QA dated and received on 07/02/18, this sample (Label on Tube: 13807-STR) defines the STR profile of the human stem cell line UCSD109i-2-8 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD109i-2-8 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 13807-STR sample submitted corresponds to the UCSD109i-2-8 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 07/16/18	X WMR Digitally	7 Signed on 07/16/18
, BA TRIP Laboratory Molecular		rector / Co-Director Laboratory / UWSMPH TRIP Laborat

Testing was accomplished by analysis of human genetic polymorphisms at STR loci. This methodology has not yet been approved by the FDA and is for investigational use only. Acknowledge TRIP in your publications, posters & presentations. For details, see: http://www.pathology.wisc.edu/research/trip/acknowledging TRIP agrees to maintain the confidentiality of any information provided to it in connection with its performance of this STR analysis on the same conditions as set forth in paragraph 2 of WiCell's Terms and Conditions of Service (http://www.wicell.org/media.acux/1a429b84-2b54-44a4-8ad8-5c05db93dd8a).

# Native Product Sterility Report



	SAMPLE #:	17100438
WiCell	DATE RECEIVED:	05-Oct-17
504 S Rosa Rd, Rm 101	TEST INITIATED:	09-Oct-17
Madison, WI 53719	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:		# Positives	
	# 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:**

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

COMMENTS:

rand **REVIEWED BY** 

NA

DATE 240CTI

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 June 28, 2018 FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: JB BD Monolight 180

		Read	ing A	Α	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	<b>Comments/Suggestions</b>
1	UCSD109i-2-8-WB60929 13807	204	203	203.5	73	72	72.5	0.36	Negative	
2	Positive (+) Control	333	337	335	45221	45526	45374	135.44	Positive	
3	Negative (-) Control	667	700	683.5	75	74	74.5	0.11	Negative	

