

Thaw and Culture Details

Cell Line Name	UCSD208i-111-1							
WiCell Lot Number	WB58973							
Provider University of California, San Diego – Dr. Kelly Frazer								
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: mTeSR™1							
	Matrix: Matrigel®							
Protocol	WiCell Feeder Independent mTeSR™1 Protocol							
Passage Number	p21 These cells were cultured for 20 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 06-February-2017								
Vial Label	UCSD208i-111-1 p21 WB58973							
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

	<u> </u>			
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	Defines profile	Pass
Sterility	Steris	ST/07	Negative	Fail
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)



Approval Date	Quality Assurance Approval		
18-February-2017	1/2/2018 X JKG JKG Quality Assurance Signed by Gay, Jenna		



Chromosome Analysis Report: 069262

Date Reported: Wednesday, November 22,

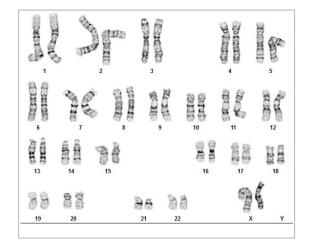
2017

Cell Line: UCSD208i-111-1-WB58973 13089

Passage#: 21

Date of Sample: 11/17/2017 Specimen: Human IPS

Results: 46,XX



Cell Line Gender: Female

Reason for Testing: lot release testing

Investigator: , WiCell CDM

Cell: 30 Slide: G02

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: Reviewed and Interpreted by: 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.

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.



Short Tandem Repeat Analysis

HISTOLOGY - IHC - MOLECULAR - IMAGING

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

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

info@wicell.org (888) 204-1782

Sample Report:

13089-STR

Sample Name on Tube: 13089-STR

 $126.0 \text{ ng/}\mu\text{L}$, (A260/280=1.92)

Sample Type: Cells

Cell Count: ~1.5 million cells

Requestor:

WiCell Research Institute

Quality Department

Sample Date: N/A **Receive Date:** 11/20/17 **Assay Date:** 11/29/17

File Name: STR 171129 wmr

Report Date: 11/30/17

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							
TPOX	CPOX 6-13								
D8S1179	S11 79 7-18								
vWA	WA 10-22								
Amelogenin	ogonin XY								
Penta_D	2.2, 3.2, 5, 7-17	more information is required,							
CSF1PO									
D16S539	16S539 5,8-15 7S820 6-14 13S317 7-15								
D7S820									
D13S317									
D5S818	7-16								
Penta_E	5-24								
D18S51	8-10, 10.2, 11-13, 13.2, 14-27								
D21S11	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								

Results: Based on the 13089-STR cells submitted by WiCell QA dated and received on 11/20/17, this sample (Label on Tube: 13089-STR) defines the STR profile of the human stem cell line UCSD208i-111-1 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human UCSD208i-111-1 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 13089-STR sample submitted corresponds to the UCSD208i-111-1 stem cell line and was not contaminated with any other human stem 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 stem cell lines is $\sim 2-5\%$.

X WMR \mathbf{X} RMB 12/01/17 Digitally Signed on **Digitally Signed on** 12/01/17 PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report



SAMPLE #: WiCell

17111201

DATE RECEIVED:

16-Nov-17

TEST INITIATED:

20-Nov-17

TEST COMPLETED:

04-Dec-17

SAMPLE NAME / DESCRIPTION:

504 S Rosa Rd, Rm 101

Madison, WI 53719

iPS(Foreskin)-1-WB66667 13067 UCSD234i-SAD2-3-WB66668 13068 UCSD193i-106-1-WB57372 13069

UCSD178i-17-3-WB61149 13071 UCSD165i-97-1-WB64665 13072

WISC013i-SCID-DB66578 13073 WISC012i-SCA-DB55679 13074

UCSD067i-19-1-WB64878 13075 UCSD166i-98-1-WB59911 13076

UCSD210i-112-1-WB63447 13077 UCSD208i-111-1-WB58973 13079

UCSD160i-92-1-WB61150 13080 UCSD189i-28-1-WB60070 13081

UCSD190i-28-2-WB58714 13082 UCSD191i-13-1-WB65029 13083

UCSD196i-30-1-WB57099 13084 UCSD197i-30-2-WB54408 13085 UCSD202i-108-1-WB57850 13086 UCSD215i-113-1-WB59923 13087

STAN054i-149-2-WB66669 13088

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Human iPS Cells

TEST RESULTS:

		# Positives	
L	# Tested	(Growth)	- Control
	20	2	2 Negative

TEST SUMMARY:

happan	# 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

Native Product Sterility Report



METHOD VALIDATION / PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

Sample labeled UCSD208i-111-1-WB58973 13079 was positive in TSB and FTG.

Sample #17111201

REVIEWED BY Demod

DATE 06 DEC17

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 November 15th, 2017

FORM SOP-QU-004.01 Version G Edition 02 Reported by: SM Reviewed by: JB Berthold Flash n' Glo 539

		Read	eading A A Read		ling B	В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	UCSD208i-111-1-WB58973 13089	70	75	72.5	24	25	24.5	0.34	Negative	
2	Positive (+) Control	150	136	143	6886	6897	6892	48.19	Positive	
3	Negative (-) Control	246	231	238.5	25	24	24.5	0.10	Negative	

