

### **Thaw and Culture Details**

Cell Line Name	UCSD054i-58-1							
WiCell Lot Number	WB55461							
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: TeSR™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 the passage number to best represent the overall passage number of the cells at thaw.								
Date Vialed 19-December-2016								
Vial Label	UCSD054i-58-1 p21 WB55461							
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** 

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Test Description	Test Provider	Test Method	Test Specification	Result					
	WiCell	SOP-CH-003	Expected karyotype	See Report					
	Results: 46,XY Nonclonal findings: 47,XY,+5								
Karyotype by G-banding	<i>Interpretation:</i> This is a normal karyotype. No clonal abnormalities were detected at the stated								
			finding, listed above. Nonclonal find						
	from technical artifact, but	may be due to a deve	loping clonal abnormality or to low-l	evel mosaicism.					
			≥ 15 Undifferentiated Colonies,						
Post-Thaw Viable Cell	WiCell	SOP-CH-305	≤ 30% Differentiation and	Pass					
Recovery	***************************************	001 011 000	recoverable attachment after	i doo					
			passage						
Identity by STR	UW Translational	PowerPlex 16 HS	Defines profile						
	Research Initiatives in	System by	Pass						
	Pathology Laboratory	Promega							
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 (MEGA<sup>EX</sup>)

Approval Date	Quality Assurance Approval		
26-January-2017	3/26/2018  X JKG  RG  Quality Assurance Signed by Gay, Jenna		



### Chromosome Analysis Report: 070466

Date Reported: Thursday, February 22, 2018

Cell Line: UCSD054i-58-1-WB55461 13389

Passage#: 21

Date of Sample: 2/13/2018 Specimen: Human IPSC

Results: 46,XY

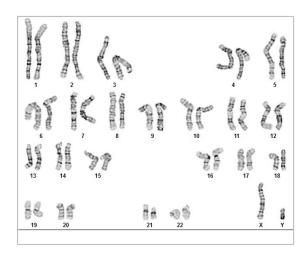
Nonclonal findings: 47,XY,+5

Cell Line Gender: Male

Reason for Testing: lot release testing

Investigator:

WiCell CDM



Cell: 35 Slide: G04

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.

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: 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

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

**Sample Report:** 

13389-STR

**Sample Name on Tube:** 13389-STR

 $120.4 \text{ ng/}\mu\text{L}, (A260/280=1.89)$ 

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 02/19/18

**Assay Date:** 02/20/18

File Name: STR 180221 wmr

**Report Date:** 02/26/18

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	X,Y	more information				
Penta_D	enta D 2.2, 3.2, 5, 7-17 is					
CSF1PO	6-15	please, contact WiCell's Technical				
D16S539	9, 0-13					
D7S820	6-14	Support.				
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					
TH01	4-9,9.3,10-11,13.3					
D3S1358	12-20					

<u>Results:</u> Based on the 13389-STR cells submitted by WiCell QA dated and received on 02/19/18, this sample (Label on Tube: 13389-STR) defines the STR profile of the human stem cell line UCSD054i-58-1 comprising 24 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD054i-58-1 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 13389-STR sample submitted corresponds to the UCSD054i-58-1 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 02/26/18

BA
TRIP Laboratory, Molecular

BA
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

### Native Product Sterility Report



SAMPLE #:

17121502

WiCell

DATE RECEIVED:

21-Dec-17

504 S. Rosa Rd., Rm 101 Madison, WI 53719 TEST INITIATED:

26-Dec-17

**TEST COMPLETED:** 

09-Jan-18

SAMPLE NAME / DESCRIPTION:

UCSD050i-54-1 WB54411 13186 UCSD051i-55-1 WB54717 13187 UCSD052i-56-1 WB57717 13188 UCSD053i-57-1 WB55067 13189 UCSD054i-58-1 WB55461 13190 UCSD055i-59-1 WB54168 13191 UCSD056i-60-1 WB57571 13192 UCSD057i-61-1 WB55674 13193 UCSD058i-62-1 WB57057 13194 UCSD059i-63-1 WB63472 13195 UCSD060i-64-1 WB57102 13196 UCSD063i-20-1 WB62421 13197 WISCO15i-SC7 WB66708 13198 UCSD235i-SAD2-4 WB66703 13199

STAN053i-149-1 WB66707 13200 HVRDi002-A WB66709 13201 WISCO14i-SC1 WB66706 13202 CREM032i-SS48-1 WB66711 13203 UCSD207i-31-2 WB66716 13204

UCSD065i-20-3 WB60829 13205

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS cells

**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

METHOD VALIDATION / PD #:

000053

STERIS Laboratories, Inc. 9303 West Broadway Ave Brooklyn Park, MN 55445

LAB-003 rev 30 Form 5 Effective: 2017-08-29 Page 1 of 2

## Native Product Sterility Report



1	FQT	MET	HOD	$\cap$	OGY:	
ı	E01	IVIE I	пор	UL	UGT.	

USP - Direct Transfer

**COMMENTS:** 

Sample # 17121502

REVIEWED BY Wessel

DATE 10JANI8

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 February 15, 2018

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

		Reading A		A Reading B		В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	UCSD054i-58-1-WB55461 13389	170	173	171.5	67	67	67	0.39	Negative	
2	Positive (+) Control	360	381	370.5	14525	14630	14578	39.35	Positive	
3	Negative (-) Control	611	629	620	69	63	66	0.11	Negative	

