

### **Thaw and Culture Details**

Cell Line Name	UCSD213i-14-1							
WiCell Lot Number	WB58781							
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™1							
	Matrix: Matrigel®							
Protocol	WiCell Feeder Independent mTeSR™1 Protocol							
Passage Number  p22 These cells were cultured for 21 passages prior to freeze and post reprogramming. WiCe to the passage number to best represent the overall passage number of the cells at thaw.								
Date Vialed 05-February-2017								
Vial Label	UCSD213i-14-1 p22 WB58781							
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 Provider Test Method Test Specification							
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)



Approval Date	Quality Assurance Approval			
18-February-2017	9/12/2018  X JKG  JKG  Quality Assurance Signed by Gay, Jenna			



#### Chromosome Analysis Report: 072074

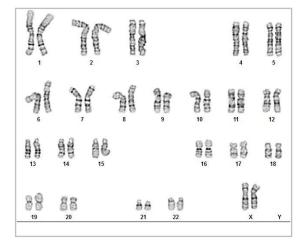
Date Reported: Tuesday, June 19, 2018

Cell Line: UCSD213i-14-1-WB58781 13713

Passage#: 22

Date of Sample: 6/12/2018 Specimen: Human IPS

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: lot release testing

Investigator: WiCell

Cell: 63

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 400 - 425

#### Interpretation:

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

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:\_\_\_\_\_

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.



# 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:

13713-STR

**Sample Name on Tube:** 13713-STR

94.1 ng/µL, (A260/280=1.79)

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 06/18/18 Assay Date: 06/20/18

File Name: STR 180622 wmr

**Report Date:** 06/27/18

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	OX 6-13 b 1179 7-18 p							
D8S1179								
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	\$\frac{58539}{8820}  \frac{5, 8-15}{6-14}  \text{8}							
D7S820								
D13S317	7-15							
D5S818	7-16							
Penta_E	5-24							
D18S51	8-10, 10.2, 11-13, 13.2, 14-27							
D21S11	<b>D21S11</b> 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	<b>H01</b> 4-9,9.3,10-11,13.3							
D3S1358	12-20							

<u>Results:</u> Based on the 13713-STR cells submitted by WiCell QA dated and received on 06/18/18, this sample (Label on Tube: 13713-STR) defines the STR profile of the human stem cell line UCSD213i-14-1 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD213i-14-1 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 13713-STR sample submitted corresponds to the UCSD213i-14-1 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 06/28/18

Note: The property of the

## Native Product Sterility Report



SAMPLE #:

DATE RECEIVED:

18010216

WiCell

04-Jan-18

TEST INITIATED:

08-Jan-18 22-Jan-18

Madison, WI 53719 TEST COMPLETED:

UCSD140i-37-1 WB59010 13213 UCSD163i-95-1 WB58969 13214

UCSD172i-101-1 WB58971 13215

UCSD179i-27-1 WB58928 13216

UCSD212i-32-2 WB58930 13217

UCSD213i-14-1 WB58781 13218

00002101171700000115210

UCSD214i-14-2 WB58929 13219

UCSD219i-117-1 WB59167 13220

UCSD200i-4-1 WB66717 13221

WISC012i-SCA WB66718 13222

**UNIQUE IDENTIFIER:** 

504 S. Rosa Rd., Rm 101

SAMPLE NAME / DESCRIPTION:

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:

Processed according to LAB-003: Sterility Test Procedure

METHOD VALIDATION / PD #:

000053

TEST METHODOLOGY:

**USP** - Direct Transfer

COMMENTS:

NA

**REVIEWED BY** 

lessad

DATE 235 AIVIS

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 14, 2018

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

		Reading A		A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	UCSD213i-14-1-WB58781 13713	278	276	277	78	79	78.5	0.28	Negative	
2	Positive (+) Control	560	600	580	21715	21834	21775	37.54	Positive	
3	Negative (-) Control	910	902	560	91	87	89	0.16	Negative	

