

## **Thaw and Culture Details**

Cell Line Name	UCSD002i-16-1							
WiCell Lot Number	WB53932							
Provider	University of California, San Diego – Dr. Kelly Frazer							
Banked By	WiCell							
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 5 wells of a 6 well plate.							
Culture Platform	Feeder Independent							
	Medium: mTeSR™1							
	Matrix: Matrigel®							
Protocol WiCell Feeder Independent mTeSR™1 Protocol								
Passage Number  p31 These cells were cultured for 30 passages prior to freeze and post reprogramming. WiCel the passage number to best represent the overall passage number of the cells at thaw.								
Date Vialed 06-December-2016								
Vial Label	UCSD002i-16-1 p31 WB53932							
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			
	WiCell	SOP-CH-003	Expected karyotype	See Report			
Results: 47,XY,+i(12)(p10)[20]  Interpretation: This is an abnormal karyotype showing an additional copy of an isochromosome of the short (p) arm of chromosome 12 in all cells analyzed. This imbalance results in tetrasomy 12p. Extra copies of chromosome 12p are recurrent acquired aberrations in human pluripotent scell cultures. No other clonal abnormalities were found at the level of resolution achieved.							
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 PowerPlex 16 HS Research Initiatives in System by Defines profile Pathology Laboratory Promega						
Sterility	Steris	ST/07	Negative	Pass			
Mycoplasma	WiCell	SOP-QU-004	OP-QU-004 Negative				



### **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			
20-December-2016	S/J./2018  X JKG  BG  Quality Assurance Signed by Gay, Jenna			



#### Chromosome Analysis Report: 071294

Date Reported: Friday, April 13, 2018

Cell Line: UCSD002i-16-1-WB53932 13561

Passage#: 31

Date of Sample: 4/9/2018 Specimen: Human IPS

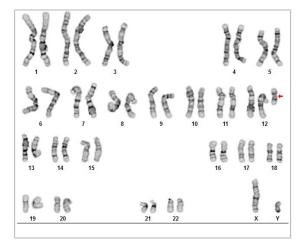
Results: 47,XY,+i(12)(p10)[20]

Cell Line Gender: Male

Reason for Testing: Lot release testing

Investigator:

WiCell



Cell: 35 Slide: G03

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 475 - 575

#### Interpretation:

This is an abnormal karyotype showing an additional copy of an isochromosome ("i") of the short (p) arm of chromosome 12 in all cells analyzed. This imbalance results in tetrasomy for 12p. Extra copies of chromosome 12p are recurrent acquired aberrations in human pluripotent stem cell cultures. No other clonal abnormalities were found at the level of resolution achieved.

Completed by: Reviewed and Interpreted by:

, CG(ASCP)

, PhD, FACMGG

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 to be used for any other purpose, contact the Director of the WiCell Cytogenetics Laboratory.

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# 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:** 

13561-STR

**Sample Name on Tube:** 13561-STR

 $81.3 \text{ ng/}\mu\text{L}$ , (A260/280=1.87)

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute
Quality Department

Sample Date: N/A Receive Date: 04/16/18 Assay Date: 04/19/18

File Name: STR 180420 wmr

**Report Date:** 04/27/18

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	7							
D8S1179	7-18	been redacted to protect donor						
vWA	10-22	confidentiality. If						
Amelogenin	X,Y	more information						
Penta D	2.2, 3.2, 5, 7-17							
CSF1PO	6-15	please, contact						
D16S539	5, 8-15	<ul><li>WiCell's Technical</li><li>Support.</li></ul>						
D7S820	6-14	опрот.						
D13S317	7-15							
D5S818								
Penta_E								
D18S51								
D21S11								
TH01								
D3S1358	12-20							

<u>Results:</u> Based on the 13561-STR cells submitted by WiCell QA dated and received on 04/16/18, this sample (Label on Tube: 13561-STR) defines the STR profile of the human stem cell line UCSD002i-16-1 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human UCSD002i-16-1 stem cell line were detected however, allelic imbalance (denoted by \*\* in table above) was observed at the vWA loci and could be the result of chromosomal gains and/or losses in this cell line. 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 13561-STR sample submitted corresponds to the UCSD002i-16-1 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 04/30/18

X WMR Digitally Signed on 04/30/18

BA
TRIP Laboratory, Molecular

Digitally Signed on 04/30/18

New Digitally Signed on 04/30/18

WMR Digitally Signed on 04/30/18

# Native Product Sterility Report



SAMPLE #:

17110123

DATE RECEIVED:

02-Nov-17

TEST INITIATED:

06-Nov-17

TEST COMPLETED:

20-Nov-17

SAMPLE NAME / DESCRIPTION:

iPS(Foreskin)-2-WB66647 13010

iPS(Foreskin)-3-WB66648 13011 UCSD206i-31-1-DB25304 13013 UCSD206i-31-1-WB66653 13014 UCSD207i-31-2-DB25300 13015 UCSD207i-31-2-WB66652 13016 USCD112i-2-11-DB25859 13017 UCSD002i-16-1-WB53932 13018 UCSD201i-4-2-WB63302 13019

UCSD004i-42-1-WB54900 13020

UNIQUE IDENTIFIER:

NΑ

PRODUCT REGISTRATION:

Other: Human iPS cells

**TEST RESULTS:** 

WiCell

504 S Rosa Rd, Rm 101

Madison, WI 53719

# Tested	# Positives (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 Depod

DATE 20NDUIT



# Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing April 09, 2018

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

		Reading A		A Reading B		В	Ratio			
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	UCSD002i-16-1-WB53932 13561	278	291	284.5	96	96	96	0.34	Negative	
2	Positive (+) Control	602	603	602.5	26317	26406	26362	43.75	Positive	
3	Negative (-) Control	873	884	878.5	93	93	93	0.11	Negative	

