

## **Thaw and Culture Details**

Cell Line Name	UCSD012i-5-5						
WiCell Lot Number	WB54412						
Provider	University of California, San Diego – Dr. Kelly Frazer						
Banked By	WiCell						
Thaw and Culture Recommendations							
Culture Platform	Feeder Independent						
	Medium: mTeSR™1						
	Matrix: Matrigel®						
Protocol WiCell Feeder Independent mTeSR <sup>™</sup> 1 Protocol							
Passage Number	p25 These cells were cultured for 24 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 11-December-2016							
Vial Label UCSD012i-5-5 p25 WB54412							
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			
04-January-2017	9/27/2018 XG Guality Assurance Signed by Gay, Jenna			

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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 09, 2018 Cell Line: UCSD012i-5-5-WB54412 13840 Passage#: 25 Date of Sample: 7/2/2018 Specimen: Human IPS Results: 46,XY Cell Line Sex: Male Reason for Testing: lot release testing Investigator: , WiCell Cell: 45 Slide: G01 Slide Type: Karyotype Total Counted: 20 Total Analyzed: 8 Total Karyogrammed: 4

Band Resolution: 475 - 525

### Interpretation:

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

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

A signed copy of this report is available upon request.

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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.



### HISTOLOGY - IHC - MOLECULAR - IMAGING

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

Sample Report: 13840-STR Sample Name on Tube: 13840-STR 79.8 ng/µL, (A260/280=1.75) Sample Type: Cells Cell Count: ~2 million cells **Requestor:** WiCell Research Institute Quality Department WiCell<sup>®</sup> info@wicell.org (888) 204-1782

Sample Date: N/A Receive Date: 07/09/18 Assay Date: 07/11/18 File Name: STR 180712 wmr Report Date: 07/18/18

STR Locus	Locus STR Genotype Repeat #						
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	2.2, 3.2, 5, 7-17	is required, please, contact					
CSF1PO	-15 6-15						
D16S539	<b>\$539</b> 5, 8-15						
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	<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						
<b>TH01</b>	4-9,9.3,10-11,13.3						
D3S1358	12-20						

<u>Results:</u> Based on the 13840-STR cells submitted by WiCell QA dated and received on 07/09/18, this sample (Label on Tube: 13840-STR) defines the STR profile of the human stem cell line UCSD012i-5-5 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD012i-5-5 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 13840-STR sample submitted corresponds to the UCSD012i-5-5 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 07/19/18	X WMR Digitally Signed on 07/19/18
, BA	, PhD, Director / Co-Director
TRIP Laboratory, Molecular	UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

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).

# **Short Tandem Repeat**

Analysis

# Native Product Sterility Report



CORRECTED

REPORT

17060070

01-Jun-17

02-Jun=17

16-Jun-17

SAMPLE #:

DATE RECEIVED:

**TEST INITIATED:** 

TEST COMPLETED:

WiCell 504 S Rosa Rd, Rm 101 Madison, WI 53719

### SAMPLE NAME / DESCRIPTION:

iPS(IMR90)-4 WB65317 12534 iPS(IMR90)-4 WB65316 12535 HVRDi002-A WB65326 12536 LT2e-H9CAGGFP WB38197 12537 H9 hNanog-pGZ WB35898 12538 UCSD001i-5-1 WB54521 12539 UCSD009i-5-2 WB61622 12540 USCD010i-5-3 WB57058 12541 UCSD011i-5-4 WB64802 12542 UCSD012i-5-5 WB54412 12543 NA Human iPS cells

### UNIQUE IDENTIFIER: PRODUCT REGISTRATION:

TEST RESULTS:	# 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
Arrent arrest	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:

Report revised due to corrected Sample Name.

**REVIEWED BY** 

DATE 20JUNIT

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 July 5, 2018 FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: JB BD Monolight 180

		Read	ing A	Α	Read	ing B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	<b>Comments/Suggestions</b>
1	UCSD012i-5-5-WB54412 13840	271	246	258.5	118	116	117	0.45	Negative	
2	Positive (+) Control	390	381	385.5	61000	61163	61082	158.45	Positive	
3	Negative (-) Control	820	821	820.5	113	101	107	0.13	Negative	

