

Thaw and Culture Details

Cell Line Name	UCSD063i-20-1						
WiCell Lot Number	WB62421						
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	p18 These cells were cultured for 17 passages prior to freeze and post reprogramming. WiCell adds +1 to the passage number at freeze to best represent what the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 18.						
Date Vialed	05-April-2017						
Vial Label	UCSD063i-20-1 p18 WB62421						
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
	<i>Results:</i> 47,XX,+8[2]/46,>			
Karyotype by G-banding			Frisomy 8 is present in two of twenty	
			cultures of this cell type. No other of	lonal
	abnormalities were detected			
Post-Thaw Viable Cell		SOP-CH-305	 ≥ 15 Undifferentiated Colonies, ≤ 30% Differentiation and 	5
	Recovery		recoverable attachment after	Pass
			passage	
Identity by STR	UW Translational	PowerPlex 16 HS		
	Research Initiatives in	System by	Defines profile	Pass
	Pathology Laboratory	Promega		
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass

©2017 WiCell Research Institute

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.



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.

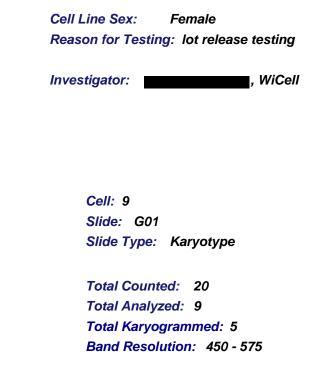
- Illumina® HumanCoreExome BeadChip Array
- RNA-Seq
- Flow Cytometry (SSEA-4, Tra 1-81)
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)

Approval Date	Quality Assurance Approval
20-April-2017	7/29/2018 XIG Quality Assurance Signed by: Gay, Jenna

©2017 WiCell Research Institute



Date Reported: Friday, July 06, 2018 Cell Line: UCSD063i-20-1-WB62421 13826 Passage#: 18 Date of Sample: 7/2/2018 Specimen: Human IPS Results: 47,XX,+8[2]/46,XX[18]



Interpretation:

38

This is an abnormal karyotype. Trisomy 8 is present in two of twenty cells examined. Gain of chromosome 8 is recurrently acquired in cultures of this cell type. No other clonal abnormalities were detected at the stated band level of resolution.

Completed by:	
Reviewed and Interpreted by:	, PhD, FACMG

A signed copy of this report is available upon request.

加日

Date:	Sent By:	Sent To:	QC Review By:
B 4(0)	•••••• 	••••••	

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: 13826-STR Sample Name on Tube: 13826-STR 84.5 ng/μL, (A260/280=1.85) Sample Type: Cells Cell Count: ~2 million cells **Requestor:** WiCell Research Institute Quality Department

Short Tandem Repeat

Analysis

(888) 204-1782 Sample Date: N/A Receive Date: 07/09/18

Receive Date: 07/09/18 **Assay Date:** 07/11/18 **File Name:** STR 180712 wmr **Report Date:** 07/18/18

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
TPOX	6-13	information has
D8S1179	7-18	been redacted to
vWA	10-22	protect donor
Amelogenin	X,Y	confidentiality. If
Penta_D	2.2, 3.2, 5, 7-17	 more information is required,
CSF1PO	6-15	please, contact
D16S539	5, 8-15	WiCell's Technica
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 13826-STR cells submitted by WiCell QA dated and received on 07/09/18, this sample (Label on Tube: 13826-STR) defines the STR profile of the human stem cell line UCSD063i-20-1 comprising 25 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD063i-20-1 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 13826-STR sample submitted corresponds to the UCSD063i-20-1 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 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 Laborat

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).



Native Product Sterility Report



		SAMPLE #:	17121502
WiCell		DATE RECEIVED:	21-Dec-17
504 S. Rosa Rd., Rm 101		TEST INITIATED:	26-Dec-17
Madison, WI 53719		TEST COMPLETED:	09-Jan-18
		ILOI OOMI LEILD.	03-341-10
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:
--	------	----------

RY:	# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
	20	TSB	40	20-25	14
	20	FTG	40	30-35	14

REFERENCE:

METHOD VALIDATION / PD #:

Processed according to LAB-003: Sterility Test Procedure 000053





TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS: Sample # 17121502

Usad REVIEWED BY

DATE IDJANIS

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	Comments/Suggestions
1	UCSD063i-20-1-WB62421 13826	283	286	284.5	178	195	186.5	0.66	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	

