

Thaw and Culture Details

Cell Line Name	UCSD041i-33-2							
WiCell Lot Number	WB60323							
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 add the passage number to best represent the overall passage number of the cells at thaw.								
Date Vialed	27-February-2017							
Vial Label	UCSD041i-33-2 p18 WB60323							
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

1001119 1 011011110111011									
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)



Approval Date	Quality Assurance Approval			
23-March-2017	9/27/2018 X JKG JKG Quality Assurance Signed by Gay, Jenna			



Chromosome Analysis Report: 072252

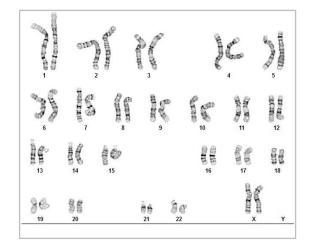
Date Reported: Monday, July 02, 2018

Cell Line: UCSD041i-33-2-WB60323 13836

Passage#: 18

Date of Sample: 6/26/2018 Specimen: Human IPS

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: lot release testing

Investigator: WiCell

Cell: 17

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 475 - 550

Interpretation:

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

Completed by:

l 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: 13836-STR

Sample Name on Tube: 13836-STR

 $79.9 \text{ ng/}\mu\text{L}$, (A260/280=1.90)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 07/02/18 Assay Date: 07/09/18

File Name: STR 1820710 wmr

Report Date: 07/16/18

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 b								
D8S1179	7-18 p								
vWA	10-22	confidentiality. If more information							
Amelogenin	nin X,Y								
Penta_D	2.2, 3.2, 5, 7-17	is required,							
CSF1PO	6-15	olease, contact <u>WiCell's Technical</u>							
D16S539	5, 8-15	Support.							
D7S820	S820 6-14								
D13S317									
D5S818	5S818 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 13836-STR cells submitted by WiCell QA dated and received on 07/02/18, this sample (Label on Tube: 13836-STR) defines the STR profile of the human stem cell line UCSD041i-33-2 comprising 30 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD041i-33-2 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 13836-STR sample submitted corresponds to the UCSD041i-33-2 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 07/16/18

Digitally Signed on 07/16/18

BA
TRIP Laboratory, Molecular

TRIP Laboratory, Molecular

UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report



SAMPLE #:

17121102

DATE RECEIVED:

14-Dec-17

TEST INITIATED:

14-Dec-17

TEST COMPLETED:

02-Jan-18

SAMPLE NAME / DESCRIPTION:

WiCell

504 S Rosa Rd., Rm 101

Madison, WI 53719

UCSD033i-41-2 WB54901 13153 UCSD037i-26-2 WB65027 13154

UCSD039i-14-3 WB57650 13155

UCSD040i-33-1 WB61158 13156

UCSD041i-33-2 WB60323 13157

UCSD043i-47-1 WB61824 13158

UCSD045i-49-1 WB62417 13159

UCSD046i-50-1 WB60581 13160

UCSD047i-51-1 WB54782 13161

UCSD049i-53-1 WB57867 13162

UCSD114i-69-1 WB55346 13163

UCSD150i-11-1 WB58932 13164 UCSD154i-90-1 WB58798 13165

UCSD164i-96-1 WB58713 13166

UCSD180i-27-2 WB60894 13167

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UCSD204i-26-1 WB62522 13168 UCSD216i-114-1 WB65031 13169

UCSD220i-118-1 WB60019 13170

iPS (Foreskin)-4 WB66699 13171

WISC015i-SC7 DB66675 13172

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS cells

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	0	4 Negatives

TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
20	TSB	40	20-25	15
20	FTG	40	30-35	15

REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

METHOD VALIDATION / PD #:

000053

Native Product Sterility Report



TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

NA

REVIEWED BY

DATE 035AN18

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 28, 2018

FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: JB 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	UCSD041i-33-2-WB60323 13836	212	208	210	84	83	83.5	0.40	Negative	
2	Positive (+) Control	333	337	335	45221	45526	45374	135.44	Positive	
3	Negative (-) Control	667	700	683.5	75	74	74.5	0.11	Negative	

