

Thaw and Culture Details

Cell Line Name	UCSD018i-3-6
WiCell Lot Number	WB60395
Provider	University of California, San Diego – Dr. Kelly Frazer
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR™1 Protocol
Passage Number	p19 These cells were cultured for 18 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	27-February-2017
Vial Label	UCSD018i-3-6 p19 WB60395
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
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	Biotest Laboratories	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass
Karyotype by G-banding	WiCell	SOP-CH-003	Report karyotype	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
	5/25/2017
17-April-2017	X _{AMK}
, , , , , , , , , , , , , , , , , , ,	AMK Quality Assurance Signed by: Klade. Anielica
	Signed by: Klade, Anjelica



Short Tandem Repeat Analysis

WiCell® info@wicell.org (888) 204-1782

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

http://www.pathology.wisc.edu/research/trip

Sample Report: 12319-STR

Sample Name on Tube: 12319-STR

 $120.1 \text{ ng/}\mu\text{L}, (A260/280=1.88)$

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department Sample Date: N/A

Receive Date: 03/13/17 **Assay Date:** 03/14/17

File Name: STR 170315 wmr

Report Date: 03/16/17

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				
TPOX	6-13	been redacted to			
D8S1179	7-18	protect donor			
vWA	10-22	confidentiality. If more information			
Amelogenin	X,Y	is required,			
Penta_D	2.2, 3.2, 5, 7-17	please, contact			
CSF1PO	6-15	WiCell's Technical			
D16S539	5, 8-15	Support.			
D7S820	6-14				
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 12319-STR cells submitted by WiCell QA dated and received on 03/13/17, this sample (Label on Tube: 12319-STR) defines the STR profile of the human stem cell line UCSD018i-3-6 comprising 29 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human UCSD018i-3-6 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 12319-STR sample submitted corresponds to the UCSD018i-3-6 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 03/17/17

WMR Digitally Signed on 03/17/17

ehrauer, PhD, Director / Co-Director
TRIP Laboratory, Molecular

UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report



CORRECTED

WiCell

504 S. Rosa Rd, Rm 101

Madison, WI 53719

SAMPLE #: 17030864

DATE RECEIVED: 09-Mar-17

TEST INITIATED: 13-Mar-17

TEST COMPLETED: 27-Mar-17

SAMPLE NAME / DESCRIPTION:

HVRDi002-A-1-DB46579 12321; UCSD018i-3-6-WB60395 12322; PENN108i-781-

3-DB36616 12323; PENN047i-254-60-DB36620 12324; PENN123i-SV20-

DB36624 12325; PENN116i-125-16-DB36628 12326; PENN122i-627-5-DB36632 12327; PENN064i-22-2-DB36636 12328; PENN036i-286-3-DB36640 12329;

PENN076i-361-2-DB36644 12330

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Stem Cycles

TEST RESULTS:

	# Positives	
# Tested	(Growth)	- Control
10	0	3 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:

Report revised due to corrected Sample Name / Description.

REVIEWED BY

DATE ()SAPRI)

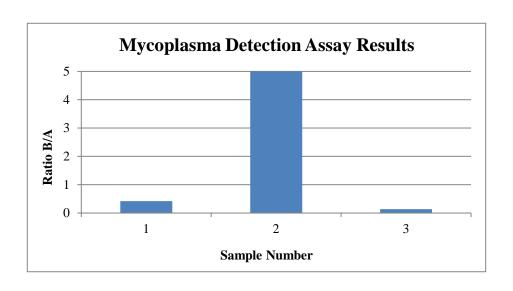
Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. This test report shall not be reproduced, except in full, without prior written approval. Liability is limited to the costs of the tests.



Mycoplasma Detection Assay Report Testing Performed by WiCell

esting Performed by WiCe Lot Release March 08, 2017 FORM SOP-QU-004.01 Version F Edition 02 Reported by: OG Reviewed by: JB BD Monolight 180

		Read	ing A	A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	UCSD018i-3-6-WB60395 12319	172	180	176	76	71	73.5	0.42	Negative	
2	Positive (+) Control	263	261	262	31599	31918	31759	121.22	Positive	
3	Negative (-) Control	292	298	295	41	40	40.5	0.14	Negative	





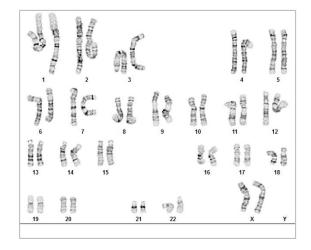
Chromosome Analysis Report: 060776

Date Reported: Monday, March 13, 2017 Cell Line: UCSD018i-3-6-WB60395 12319

Passage#: 19

Date of Sample: 3/6/2017

Specimen: iPSC Results: 46,XX



Cell Line Gender: Female

Reason for Testing: lot release testing

Investigator: , WiCell CDM

Cell: 82 Slide: 2

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 425 - 525

QC Review By: __

Interpretation:

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

Sent By:____ Sent To:__

cell populations in this specimen (i.e.,mosaicism) is limited by the number of metaphase cells examined, documented here as "# of cells counted".

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

A signed copy of this report is available upon request.

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, be	and 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 karvogran	ns in this assay. Detection of heterogeneity of clonal

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 for research use only. If 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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