

Certificate of Analysis

Thaw and Culture Details

Cell Line Name	UCSD241i-APP2-3		
WiCell Lot Number	WB67856		
Parent Material	UCSD241i-APP2-3-WB67011		
Provider/Client	University of California, San Diego – La	aboratory of Dr. Lawrence Goldstein	
Banked By	WiCell		
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate using mTeSR [™] Plus and Matrigel [®] .		
Protocol	WiCell Feeder Independent Pluripoten	t Stem Cell Protocol	
Culture Platform Prior to Freeze	Medium: mTeSR [™] Plus	Matrix: Matrigel®	
Passage Number	p21 Cells were cultured for 20 passages prior to freeze and post reprogramming. Plated cells at thaw should be labeled passage 21.		
Date Vialed	15-April-2022		
Vial Label	UCSD241i-APP2-3 p21 WB67856		
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.		



Certificate of Analysis

Results

Test Description	Test Provider	Test Method	Test Specification	Result
	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report
Karyotype	Karyotype **Results: 46,XX Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.			l of
Post-Thaw Viable Cell Recovery	WiCell	Thaw using specified Thaw & Culture Recommendations	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	Pass
Identity by STR	WiCell	PowerPlex 16 HS System by Promega™	Consistent with STR profile of deposited cell line	See Report
Mycoplasma	WiCell	PCR	Amplification of mycoplasma specific DNA detected with negative result	Pass
Sterility	Steris	Native Product Direct Transfer using FTM and TSB (ST/07)	Negative for growth following 14 days of culture	Pass

Testing Reported by Provider

For more information, publication and dbGaP links, where available, are provided on the cell line specific web page on the WiCell website.

Test Description	Test Method	Result
Pluripotency	FACS	Expressed the pluripotency-associated proteins NANOG and TRA1-81. See the publication for Mean % TRA1-81.
Teratoma	Injected into nude rats	Differentiated into cells of ectodermal, mesodermal, and endodermal lineages in vitro.



Certificate of Analysis

Approval Date	WiCell Quality Assurance Approval	
25-May-2022	S/25/2022 X. JKG XKG WiCell Quality Assurance Signed by: Gay, Jenna	



Chromosome Analysis Report: 091769

Date Reported: Tuesday, May 3, 2022

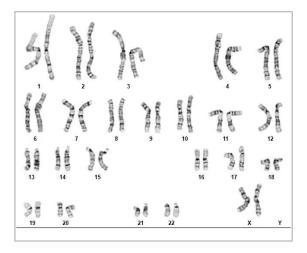
Cell Line: UCSD241i-APP2-3-WB67856

Submitted Passage #: 21

Date of Sample: 4/27/2022

Specimen: Human IPSC

Results: 46,XX



Cell Line Sex: Female

Reason for Testing: LOT_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell

Cell: 5

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4

Band Resolution: 375 - 475

Interpretation:

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

Completed by: Pam Mill

Reviewed and Interpreted by: Vanessa Horner, PhD, FACMG

For internal use only			
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

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 27Apr22, 28Apr22 STR Amplification Date: 04May22

Sample Name	UCSD241i- APP2-3- WB67856 p21	STAN006i-148- 1-DB31124 p12	JHU217i- DB36868 p8	JHU225i- DB41417 p6		
Label on tube	91769	91784	91794	91795		
FGA						
TPOX						
D8S1179						
vWA						
Amelogenin						
Penta_D		Identify				
CSF1PO	information has been redacted to					
D16S539		protect donor				
D7S820	confidentiality. If more information					
D13S317	is required, please contact					
D5S818	info@wicell.org					
Penta_E						
D18S51						
D21S11						
TH01						
D3S1358						
Allelic Polymorphisms	28	28	27	29		
Matches*	See Matches Comments			77637		
Comments						

^{*}Note: The STR profile of the following sample is an exact match for the given sample/samples.

Short Tandem Repeat

Form SOP-89.01 Version 8.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 27Apr22, 28Apr22 STR Amplification Date: 04May22

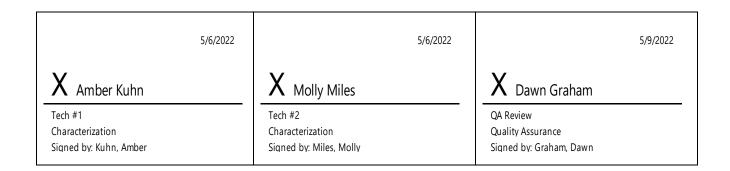
<u>Assay Description:</u> STR analysis is performed using the PowerPlex 16 HS System by PromegaTM. Results are reported as 13 CODIS STR markers, Amelogenin for gender determination and two low-stutter, highly discriminating pentanucleotide STR markers.

Results: The genotypic profiles comprise a range of 27-29 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> 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. These results suggests that the cells submitted correspond to the cell lines as named and were not contaminated with any other human cells or a significant amount of mouse feeder layer cells.

Sensitivity: Sensitivity limits for detection of STR polymorphisms unique to either this or other human cell lines is ~2-5%.

Matches: Sample 91769 is an exact match to 67074, 67101, 68023, 75167, 87113, 89245, 90431 and 90998.



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Raw data is available upon request.



Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell Stem Cell Bank, WiCell 30Apr22

Form SOP-83.01 Version 5.0

Sample Name	Result	Interpretation
UCSD241i-APP2-3-WB67856 p21 (91769)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN006i-148-1-DB31124 p12 (91784)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Assay Description Sample is tested for presence of mycoplasma using EZ-PCRTM Mycoplasma Detection Kit (Sartorius).

4/30/2022	4/30/2022	5/2/2022
X Kayla Janke	X Molly Miles	X Dawn Graham
Tech #1 Characterization Signed by: Janke, Kayla	Tech #2 Characterization Signed by: Miles, Molly	QA Review Quality Assurance Signed by: Graham, Dawn

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A gel image is available upon request.

Native Product Sterility Report



SAMPLE #:

22041128

DATE RECEIVED:

21-Apr-22

TEST INITIATED:

28-Apr-22

TEST COMPLETED:

12-May-22

SAMPLE NAME / DESCRIPTION:

504 S Rosa Road, Rm 101

Madison, WI 53719

PENN169i-M17-3-DB36515

PENN106i-75-39-DB36117

PENN107i-145-1-DB34930

PENN061i-821-2-DB36440

PENN109i-802-2-DB36444

PENN110i-389-6-DB36406

FEMM1101-363-0-DB30400

PENN059i-555-1-DB36432 PENN112i-304-6-DB34872

PENN113i-126-66-DB35039

UCSD241i-APP2-3-WB67856

UNIQUE IDENTIFIER:

N/A

TEST RESULTS:

WiCell

# 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

PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

NA

REVIEWED BY Janua Buck

DATE DOMONDOD =

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. Results applied to samples as received.