

Thaw and Culture Details

Cell Line Name	UCSD111i-2-10						
WiCell Lot Number	WB54796						
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	ocol WiCell Feeder Independent mTeSR™1 Protocol						
Passage Number	p31 These cells were cultured for 30 passages prior to freeze and post reprogramming. WiCell adds the passage number to best represent the overall passage number of the cells at thaw.						
Date Vialed	13-December-2016						
Vial Label	UCSD111i-2-10 p31 WB54796						
Biosafety and Use Information Appropriate biosafety precautions should be followed when working with these cells. The responsible for ensuring that the cells are handled and stored in an appropriate manner 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 humans.							

Testing Performed by WiCell

Test Description	Test Provider	Test Method	Test Specification	Result		
	WiCell	SOP-CH-003	Expected karyotype	See Report		
Karyotype by G-banding	Results: 47,XY,+8[16]/46,XY[2] Nonclonal findings: 46,XY,i(20)(q10) 48,XY,+8,+12 Interpretation: This is an abnormal karyotype. Trisomy 8 is present in sixteen 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. There is a pericentric inversion of chromosome 9 in all cells examined. This inversion has been reported as a normal population variant. There are two nonclonal findings, listed above, which contain a chromosomal aberration (trisomy 8 with trisomy 12 and i(20)(q10)) recurrently acquired in cultures of this cell type. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.					
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		
04-January-2017	7/25/0018 X JKG NC Quality Assurance Samed by Gay, Jenna		



Chromosome Analysis Report: 072298

Male

, WiCell

Reason for Testing: lot release testing

Cell Line Sex:

Investigator:

Date Reported: Friday, July 6, 2018

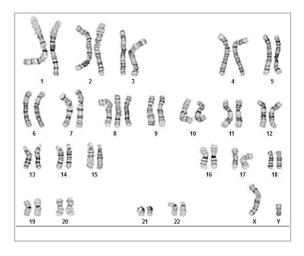
Cell Line: UCSD111i-2-10-WB54796 13838

Passage#: 31

Date of Sample: 6/28/2018 Specimen: Human IPS

Results: 47,XY,+8[16]/46,XY[2]

Nonclonal findings: 46,XY,i(20)(q10) 48,XY,+8,+12



Cell: 99 Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 350 - 500

Interpretation:

This is an abnormal karyotype. Trisomy 8 is present in sixteen 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. There is a pericentric inversion of chromosome 9 in all cells examined. This inversion has been reported as a normal population variant.

There are two nonclonal findings, listed above, which contain a chromosomal aberration (trisomy 8 with trisomy 12 and i(20)(q10)) recurrently acquired in cultures of this cell type. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

Completed 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:

13838-STR

Sample Name on Tube: 13838-STR

 $54.6 \text{ ng/}\mu\text{L}, (A260/280=1.75)$

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department 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	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	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 WiCell's Technical					
CSF1PO	6-15						
D16S539	39 5, 8-15						
D7S820	6-14	Support.					
D13S317	7-15						
D5S818							
Penta_E	Penta_E 5-24 D18S51 8-10, 10.2, 11-13, 13.2, 14-27						
D18S51							
D21S11							
TH01	4-9,9.3,10-11,13.3						
D3S1358	12-20						

<u>Results:</u> Based on the 13838-STR cells submitted by WiCell QA dated and received on 07/09/18, this sample (Label on Tube: 13838-STR) defines the STR profile of the human stem cell line UCSD111i-2-10 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD111i-2-10 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 13838-STR sample submitted corresponds to the UCSD111i-2-10 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

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Native Product Sterility Report



SAMPLE #:

17100438

DATE RECEIVED:

05-Oct-17

TEST INITIATED:

09-Oct-17

TEST COMPLETED:

23-Oct-17

SAMPLE NAME / DESCRIPTION:

JFWT2-WB66611 12952

JFNY3-WB66644 12953

WC010i-CMT2A-1.1-WB66612 12954 WC011i-CMT2A-1.2-WB66645 12955

UCSD104i-2-3-WB54170 12957 UCSD105i-2-4-WB54134 12958 UCSD109i-2-8-WB60929 12959 UCSD110i-2-9-WB57062 12960 UCSD111i-2-10-WB54796 12961 UCSD103i-2-2-WB57649 12963

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS cells

TEST RESULTS:

WiCell

504 S Rosa Rd, Rm 101

Madison, WI 53719

		# Positives	
L	# Tested	(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

METHOD VALIDATION / PD #:

000053

TEST METHODOLOGY:

USP - Direct Transfer

COMMENTS:

NA

REVIEWED BY

DATE 2400717

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	UCSD111i-2-10-WB54796 13838	237	237	237	83	79	81	0.34	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	

