

## **Thaw and Culture Details**

Cell Line Name	UCSD068i-19-2
WiCell Lot Number	WB50123
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	p16 These cells were cultured for 15 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	12-November-2016
Vial Label	UCSD068i-19-2 p16 WB50123
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					
	Results: 46,XX,?dup(20)(q11.2q11.2)[10]/46,XX[10]								
Karyotype by G-banding	Interpretation: There appears to be an interstitial duplication in the long arm of chromosome 20 in ten of twenty cells examined. There is a known recurrent acquired duplication at this location in human pluripotent stem cell cultures; we recommend that this potential abnormality be confirmed by higher resolution (fluorescence in situ hybridization—FISH) testing. No other clonal abnormalities were found.								
Post-Thaw Viable Cell Recovery	WiCell SOP-CH-305 Recoverable attachment after passage								
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	Consistent with known profile	Pass						
Sterility	Biotest Laboratories	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	X AA  AA  Cually Assurance Signed by Arnz, Andy			



### Chromosome Analysis Report: 052089

Date Reported: Wednesday, November 23, Cell Line Gender: Female

2016

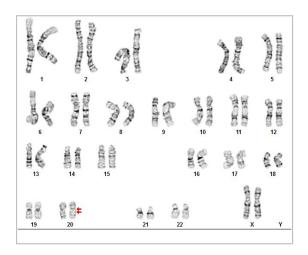
Cell Line: UCSD068i-19-2-WB50123 11959 Reason for Testing: lot release testing

Passage#: 16

Date of Sample: 11/18/2016 Investigator:

Specimen: iPSC

Results: 46,XX,?dup(20)(q11.2q11.2)[10]/46,XX[10]



Cell: 46 Slide: 2

Slide Type: Karyotype

WiCell CDM

QC Review By

Total Counted: 20
Total Analyzed: 10
Total Karyogrammed: 4

Band Resolution: 450 - 550

#### Interpretation:

Date:

There appears to be an interstitial duplication in the long arm of chromosome 20 in ten of twenty cells examined. There is a known recurrent acquired duplication at this location in human pluripotent stem cell cultures; we recommend that this potential abnormality be confirmed by higher resolution (fluorescence in situ hybridization—FISH) testing. No other clonal abnormalities were found.

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

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A signed copy of this report is available upon request.

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Limitations:	This assay allows for microscopic visua	lization of numerical an	d structural chromosome abnormalities.	The size of str	uctural abnormality that	can be detecte

Sent To

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 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.

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

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:** 11959-STR

Sample Name on Tube: 11959-STR

 $80.6 \text{ ng/}\mu\text{L}$ , (A260/280=1.79)

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 11/21/16

**Assay Date:** 11/22/16

File Name: STR 161201 wmr

**Report Date:** 12/02/16

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,
CSF1PO	6-15	please, contact WiCell's Technical
D16S539	5, 8-15	Support.
D7S820	6-14	<u> </u>
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 11959-STR cells submitted by WiCell QA dated and received on 11/21/16, this sample (Label on Tube: 11959-STR) exactly matches the STR profile of the human stem cell line UCSD068i-19-2 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human UCSD068i-19-2 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 11959-STR sample submitted corresponds to the UCSD068i-19-2 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 12/02/16

X WMR Digitally Signed on 12/02/16

, PhD, Director / Co-Director

TRIP Laboratory, Molecular

UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

## Sterility Report

## Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, Inc. BIOTEST SAMPLE # 16111519

WiCell Quality Assurance

504 South Rosa Road, Room 101 VALIDATION # NG

Madison, WI 53719

TEST PURPOSE NG

PRODUCT MIN08i-33114.B-WB49930 11979, MIN09i-33114.C-WB49931 11980, UCSD034i-4-3-

WB51215 11981, UCSD068i-19-2-WB50123 11982, UCSD195i-29-2-WB50124 11983,

UCSD230i-SAD1-2-DB26801 11984, UCSD234i-SAD2-3-DB26813 11985, UCSD239i-APP2-1-DB26829 11986, UCSD240i-APP2-2-DB26832 11987, UCSD241i-APP2-3-DB26835 11988

PRODUCT LOT NA

STERILE LOT NA BI LOT NA

STERILIZATION LOT NA BI EXPIRATION DATE NA

STERILIZATION DATE NA DATE RECEIVED 2016-11-22

STERILIZATION METHOD NA TEST INITIATED 2016-11-23

SAMPLING BLDG / ROOM NA TEST COMPLETED 2016-12-07

REFERENCE Processed according to LAB-003: Sterility Test Procedure

Ten (10) products were each divided between 40 mL TSB and 40 mL FTG. The samples were then cultured at 20-25 C and 30-35 C respectively and were monitored for a

minimum of 14 days.

**USP** 

☐ BI Manufacturers Specifications

Other

RESULTS # POSITIVES # TESTED POSITIVE CONTROL NEGATIVE CONTROL

Sterile 0 10 NA 2 Negatives

COMMENTS NA

REVIEWED BY DATE 08DECIG

Specific test results may not be indicative of the characteristics of any other samples from the same lot or similar lots. Liability is limited to the costs of the tests. The uncertainty of measurement associated with the measurement result reported in this certificate is available from the organization upon request.





# Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell
Lot Release Test
November 17th, 2016

FORM SOP-QU-004.01 Version F Edition 01 Reported by: OG Reviewed by: JB Berthold Flash n' Glo 539

		Reading A A		A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	UCSD068i-19-2-WB50123 11959	60	66	63	21	22	21.5	0.34	Negative	
2	Positive (+) Control	97	96	96.5	6053	6053	6053	62.73	Positive	
3	Negative (-) Control	166	160	163	22	22	22	0.13	Negative	

