



## Thaw and Culture Details

Cell Line Name	UCSD190i-28-2
WiCell Lot Number	WB58714
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 adds +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialied	31-January-2017
Vial Label	UCSD190i-28-2 p18 WB58714
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
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.

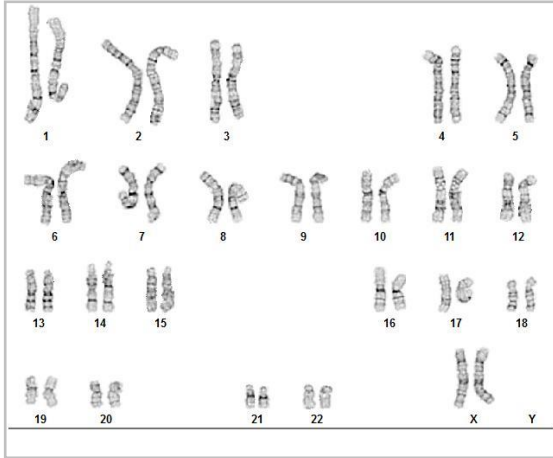
- Illumina® HumanCoreExome BeadChip Array
- RNA-Seq
- Flow Cytometry (SSEA-4, Tra 1-81)
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)



Approval Date	Quality Assurance Approval
18-February-2017	<p style="text-align: right;">9/27/2018</p> <p>X <u>JKG</u></p> <p><small>JKG Quality Assurance Signed by Gay, Jenna</small></p>

**Date Reported:** Thursday, August 09, 2018  
**Cell Line:** UCSD190i-28-2-WB58714 13923  
**Passage#:** 18  
**Date of Sample:** 8/3/2018  
**Specimen:** Human IPS  
**Results:** 46,XX

**Cell Line Sex:** Female  
**Reason for Testing:** Lot release testing  
**Investigator:** [REDACTED], WiCell



**Cell:** 2  
**Slide:** G01  
**Slide Type:** Karyotype

**Total Counted:** 20  
**Total Analyzed:** 8  
**Total Karyogrammed:** 4  
**Band Resolution:** 475 - 500

### Interpretation:

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

**Completed by:** [REDACTED], CG(ASCP)  
**Reviewed and Interpreted by:** [REDACTED], 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](http://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.*

**Sample Report:**

13846-STR

**Sample Name on Tube:** 13846-STR

98.5 ng/μL, (A260/280=1.84)

**Sample Type:** Cells**Cell Count:** ~2 million cells**Requestor:**

WiCell Research Institute

Quality Department

**Sample Date:** N/A**Receive Date:** 07/16/18**Assay Date:** 07/17/18**File Name:** STR 180718 wmr repeat**Report Date:** 07/23/18

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 been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support</a> .
TPOX	6-13	
D8S1179	7-18	
vWA	10-22	
Amelogenin	X,Y	
Penta_D	2.2, 3.2, 5, 7-17	
CSF1PO	6-15	
D16S539	5, 8-15	
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	

**Results:** Based on the 13846-STR cells submitted by WiCell QA dated and received on 07/16/18, this sample (Label on Tube: 13846-STR) defines the STR profile of the human stem cell line UCSD190i-28-2 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human UCSD190i-28-2 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 13846-STR sample submitted corresponds to the UCSD190i-28-2 stem cell line and was not contaminated with any other human stem 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 stem cell lines is ~2-5%.



Digitally Signed on 07/26/18

[Redacted], BA  
TRIP Laboratory, Molecular

Digitally Signed on 07/26/18

[Redacted], PhD, Director / Co-Director  
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Testing was accomplished by analysis of human genetic polymorphisms at STR loci. This methodology has not yet been approved by the FDA and is for investigational use only.

Acknowledge TRIP in your publications, posters & presentations. For details, see: <http://www.pathology.wisc.edu/research/trip/acknowledging>

TRIP agrees to maintain the confidentiality of any information provided to it in connection with its performance of this STR analysis on the same conditions as set forth in paragraph 2 of WiCell's Terms and Conditions of Service (<http://www.wicell.org/media.acux/1a429b84-2b54-44a4-8ad8-5c05db93dd8a>).

# Native Product Sterility Report



WiCell  
504 S Rosa Rd, Rm 101  
Madison, WI 53719

## CORRECTED REPORT

SAMPLE #: 17111201  
DATE RECEIVED: 16-Nov-17  
TEST INITIATED: 20-Nov-17  
TEST COMPLETED: 04-Dec-17

SAMPLE NAME / DESCRIPTION: iPS(Foreskin)-1-WB66667 13067  
UCSD234i-SAD2-3-WB66668 13068  
UCSD193i-106-1-WB57372 13069  
UCSD178i-17-3-WB61149 13071  
UCSD165i-97-1-WB64665 13072  
WISC013i-SCID-DB66578 13073  
WISC012i-SCA-DB66579 13074  
UCSD067i-19-1-WB64878 13075  
UCSD166i-98-1-WB59911 13076  
UCSD210i-112-1-WB63447 13077  
UCSD208i-111-1-WB58973 13079  
UCSD160i-92-1-WB61150 13080  
UCSD189i-28-1-WB60070 13081  
UCSD190i-28-2-WB58714 13082  
UCSD191i-13-1-WB65029 13083  
UCSD196i-30-1-WB57099 13084  
UCSD197i-30-2-WB54408 13085  
UCSD202i-108-1-WB57850 13086  
UCSD215i-113-1-WB59923 13087  
STAN054i-149-2-WB66669 13088

UNIQUE IDENTIFIER: NA  
PRODUCT REGISTRATION: Human iPS Cells

### TEST RESULTS:

# Tested	# Positives (Growth)	- Control
20	1	2 Negative

### TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
20	TSB	40	20-25	14
20	FTG	40	30-35	14

### REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

# Native Product Sterility Report



METHOD VALIDATION / PD #: 000053  
TEST METHODOLOGY: USP - Direct Transfer

**CORRECTED  
REPORT**

COMMENTS: Report modified to correct the Sample Name / Description and # Positives.

Sample labeled UCSD208i-111-1-WB58973 13079 was positive in TSB and FTG.  
Sample #17111201

REVIEWED BY

A blue ink handwritten signature, appearing to be "C. K.", written over a horizontal line.

DATE

A blue ink handwritten date "12/25/17" written over a horizontal line.

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

Lot Release Testing

July 12, 2018

FORM SOP-QU-004.01

Version G Edition 02

Reported by: AP

Reviewed by: JB

BD Monolight 180

#	Sample Name	Reading A		A Ave	Reading B		B Ave	Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2		RLU1	RLU2				
1	UCSD190i-28-2-WB58714 13846	208	211	209.5	82	80	81	0.39	Negative	
2	Positive (+) Control	278	289	283.5	38511	38821	38666	136.39	Positive	
3	Negative (-) Control	636	654	645	65	71	68	0.11	Negative	

