

#### **Thaw and Culture Details**

Cell Line Name	UCSD222i-120-1							
WiCell Lot Number	WB52614							
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	r 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	01-December-2016							
Vial Label	UCSD222i-120-1 p19 WB52614							
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 Provider Test Method		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 (MEGAEX)



Approval Date	Quality Assurance Approval			
20-December-2016	6/28/2018  X JKG  IKG  Quality Assurance Signed by, Gay, Jenna			



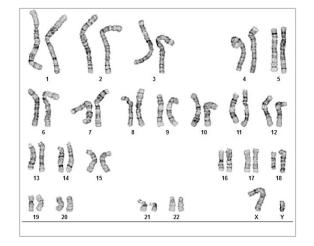
#### Chromosome Analysis Report: 071080

Date Reported: Tuesday, March 27, 2018
Cell Line: UCSD222i-120-1-WB52614 13586

Passage#: 19

Date of Sample: 3/21/2018 Specimen: Human IPS

Results: 46,XY



Cell Line Gender: Male

Reason for Testing: lot release testing

Investigator: , WiCell

Cell: 6

Slide: G02

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 475 - 525

#### Interpretation:

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

Completed by:	
Reviewed and Interpreted by:	, PhD, FACMG
A signed copy of this report is	available upon request.

Date:	Sent By:	Sent To:	QC Review By:
2410:	- J	<b>G</b> 0:11: 1:0:	~ · · · · · · · · · · · · · · · · · · ·

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 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

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:** 

13586-STR

**Sample Name on Tube:** 13586-STR

 $39.6 \text{ ng/}\mu\text{L}, (A260/280=1.61)$ 

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute Quality Department Sample Date: N/A Receive Date: 03/26/18 Assay Date: 03/29/18

File Name: STR 180330 wmr

**Report Date:** 04/02/18

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	ldentifying information has							
TPOX	2OX 6-13								
D8S1179									
vWA									
Amelogenin									
Penta_D	2.2, 3.2, 5, 7-17	is required,							
CSF1PO	6-15	please, contact WiCell's Technical							
D16S539	3, 6-13								
D7S820	6-14	Support.							
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 13586-STR cells submitted by WiCell QA dated and received on 03/26/18, this sample (Label on Tube: 13586-STR) defines STR profile of the human stem cell line UCSD222i-120-1 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human UCSD222i-120-1 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 13586-STR sample submitted corresponds to the UCSD222i-120-1 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 04/04/18

BA
TRIP Laboratory, Molecular

BA
UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

### Sterility Report

### Biotest Laboratories, Inc.

Making life-saving products possible

# CORRECTED REPORT

WiCell Research Institute, Inc. WiCell Quality Assurance

504 South Rosa Road, Room 101

Madison, WI 53719

BIOTEST SAMPLE#

16120579

VALIDATION #

NG

TEST PURPOSE

NG

PRODUCT

UCSD135i-81-1 WB52272 12052 UCSD194i-29-1-WB52612 12053 UCSD077i-1-8 WB52432 12054 UCSD116i-71-1-WB52431 12055 UCSD222i-120-1-WB52614 12056 UCSD070i-1-1-WB52613 12057 UCSD003i-16-2-WB53533 12058 UCSD221i-119-1-WB53573 12059 UCSD192i-13-2-WB53109 12060 UCSD231i-SAD1-3-DB26804 12062

PRODUCT LOT

NA

STERILE LOT

NA

**BILOT** 

NA

STERILIZATION LOT

NA

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BI EXPIRATION DATE NA

STERILIZATION DATE

NA

DATE RECEIVED

2016-12-08

STERILIZATION METHOD NA

TEST INITIATED

2016-12-09

SAMPLING BLDG / ROOM NA

TEST COMPLETED

2016-12-23

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** 

Sterile

# POSITIVES 0

# TESTED

POSITIVE CONTROL

**NEGATIVE CONTROL** 

NA

2 Negative

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.



## Biotest Laboratories, Inc.

Making life-saving products possible

CORRECTED REPORT

BIOTEST SAMPLE # 16120579

COMMENTS Report revised due to missing product name.

REVIEWED BY

DATE

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.





# Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing March 22, 2018 FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: JB BD Monolight 180

		Reading A		A	A Reading B		В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	UCSD222i-120-1-WB52614 13586	270	303	286.5	103	95	99	0.35	Negative	
2	Positive (+) Control	485	530	507.5	11283	11743	11513	22.69	Positive	
3	Negative (-) Control	826	858	842	107	103	105	0.12	Negative	

