Thaw and Culture Details

Cell Line Name	UCSD102i-2-1
WiCell Lot Number	WB62273
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	p25 These cells were cultured for 24 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	02-April-2017
Vial Label	UCSD102i-2-1 p25 WB62273
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	Pass
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.

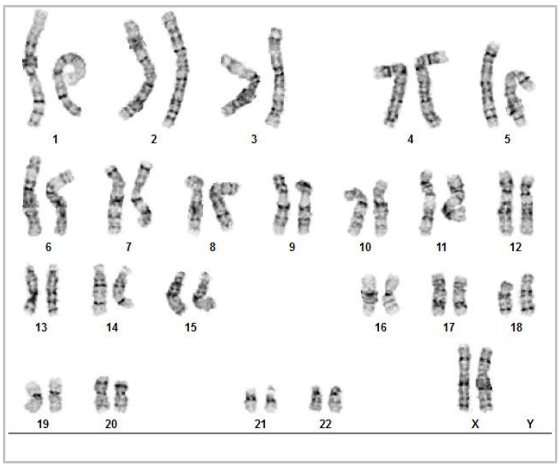
- Illumina® HumanCoreExome BeadChip Array
- RNA-Seq
- Flow Cytometry (SSEA-4, Tra 1-81)
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA^{EX})

Approval Date	Quality Assurance Approval
14-June-2017	10/20/2017 X RK RK Quality Assurance Signed by: Kremers, Erik

Chromosome Analysis Report: 068063

Date Reported: Wednesday, October 04, 2017
Cell Line: UCSD102i-2-1-WB62273 12915
Passage#: 25
Date of Sample: 9/21/2017
Specimen: Human IPSC
Results: 46,XX

Cell Line Gender: Female
Reason for Testing: lot release testing
Investigator: [redacted]



Cell: 4
Slide: G01
Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8
Total Karyogrammed: 5
Band Resolution: 450 - 475

Interpretation:

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

Completed by: [redacted]
Reviewed and Interpreted by:

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 may not be relied upon by any other party without the prior written consent of the Director of the WiCell Cytogenetics Laboratory. The resu lts 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.

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Short Tandem Repeat Analysis

School of Medicine and Public Health
UNIVERSITY OF WISCONSIN-MADISON
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:
12915-STR
Sample Name on Tube: 12915-STR
87.5 ng/µL, (A260/280=1.78)
Sample Type: Cells
Cell Count: ~2 million cells

Requestor:
WiCell Research Institute
Quality Department

Sample Date: N/A
Receive Date: 09/25/17
Assay Date: 09/26/17
File Name: STR 170927 wmr
Report Date: 10/06/17

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	[redacted]
TPOX	6-13	[redacted]
D8S1179	7-18	[redacted]
vWA	10-22	[redacted]
Amelogenin	X,Y	[redacted]
Penta_D	2.2, 3.2, 5, 7-17	[redacted]
CSF1PO	6-15	[redacted]
D16S539	5, 8-15	[redacted]
D7S820	6-14	[redacted]
D13S317	7-15	[redacted]
D5S818	7-16	[redacted]
Penta_E	5-24	[redacted]
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	[redacted]
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	[redacted]
TH01	4-9,9.3,10-11,13.3	[redacted]
D3S1358	12-20	[redacted]

Results: Based on the 12915-STR cells submitted by WiCell QA dated and received on 09/25/17, this sample (Label on Tube: 12915-STR) defines the STR profile of the human stem cell line UCSD102i-2-1 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human UCSD102i-2-1 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 12915-STR sample submitted corresponds to the UCSD102i-2-1 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%.

X *RMB* **Digitally Signed on 10/06/17**

[redacted]
TRIP Laboratory, Molecular

X *WMR* **Digitally Signed on 10/06/17**

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

Native Product Sterility Report

STERIS

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

SAMPLE #: 17091838
DATE RECEIVED: 28-Sep-17
TEST INITIATED: 29-Sep-17
TEST COMPLETED: 13-Oct-17

SAMPLE NAME / DESCRIPTION:
JFWT6-WB66607 12920
JFMD3-WB66604 12921
JFNY4-WB66605 12922
JFRBi4-WB66606 12923
UCSD102i-2-1-WB62273 12924
UCSD044i-48-1-WB57578 12925
UCSD106i-2-5-WB54639 12926
UCSD042i-46-1-WB64667 12927
UCSD062i-66-1-WB54930 12928
UCSD155i-12-1-WB58974 12929

UNIQUE IDENTIFIER: NA

PRODUCT REGISTRATION: Other: Human iPS cells

TEST RESULTS:

# 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

METHOD VALIDATION / PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

Native Product Sterility Report

STERIS

COMMENTS: Sample # 17091838

REVIEWED BY Hansad DATE 13OCT17

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

September 25, 2017

FORM SOP-QU-004.01
Version F Edition 02
Reported by: KR
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	UCSD102i-2-1-WB62273 12915	307	316	311.5	142	144	143	0.46	Negative	
2	Positive (+) Control	466	487	476.5	37344	37714	37529	78.76	Positive	
3	Negative (-) Control	780	791	785.5	81	86	83.5	0.11	Negative