



Thaw and Culture Details

Cell Line Name	UCSD215i-113-1
WiCell Lot Number	WB59923
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	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 Vialied	19-February-2017
Vial Label	UCSD215i-113-1 p19 WB59923
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
	<p>Results: 46,XX Nonclonal findings: 47,XX,+1 Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution. There is a nonclonal finding, listed above, which contains a chromosomal aberration (gain of chromosome 1) recurrently acquired in pluripotent stem cell cultures. An additional twenty cells were examined for this chromosomal aberration; it was not observed. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.</p>			
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-CH-044	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.

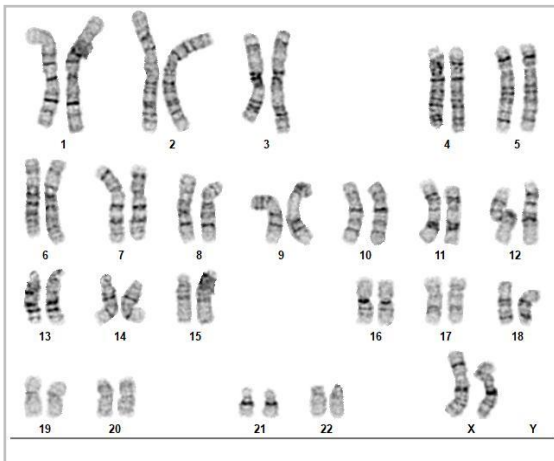
- Illumina® HumanCoreExome BeadChip Array
- RNA-Seq
- Flow Cytometry (SSEA-4, Tra 1-81)
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA^{EX})

Approval Date	Quality Assurance Approval
23-March-2017	 <p>6/6/2019 X JKG JKG Quality Assurance Signed by: Gay, Jenna</p>

Date Reported: Monday, May 27, 2019
Cell Line: UCSD215i-113-1-WB59923 14637
Passage#: 19
Date of Sample: 5/13/2019
Specimen: Human IPS
Results: 46,XX

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

Nonclonal findings: 47,XX,+1



Cell: 14
Slide: G03
Slide Type: Karyotype
Total Counted: 40
Total Analyzed: 8
Total Karyogrammed: 4
Band Resolution: 400 - 425

Interpretation:

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

There is a nonclonal finding, listed above, which contains a chromosomal aberration (gain of chromosome 1) recurrently acquired in pluripotent stem cell cultures. An additional twenty cells were examined for this chromosomal aberration; it was not observed. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

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

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.



HISTOLOGY - IHC - MOLECULAR - IMAGING

Department of Pathology and Laboratory Medicine
TRIP Laboratory (Molecular)
<https://research.pathology.wisc.edu/trip-home/>
(608) 265-9168

Short Tandem Repeat Analysis



characterization@wicell.org
(608) 316-4145

Sample Report:

14637-STR

Sample Name on Tube: 14637-STR

42.1 ng/μL, (A260/280=2.19)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute

Quality Assurance Department

Receive Date: 05/20/19

Report Sent: 05/24/19

Assay Date: 05/21/19

File Name: STR 190522 wmr

Report Date: 05/23/19

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 WiCell's Technical Support .
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 14637-STR cells submitted by WiCell QA dated and received on 05/20/19, this sample (Label on Tube: 14637-STR) defines the STR profile of the human cell line UCSD215i-113-1 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human UCSD215i-113-1 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 14637-STR sample submitted corresponds to the UCSD215i-113-1 cell line and was not contaminated with any other human 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 cell lines is ~2-5%.

X *RMB*

Digitally Signed on 05/24/19

██████████, BA
TRIP Laboratory, Molecular

X *WMR*

Digitally Signed on 05/24/19

██████████, 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: <https://research.pathology.wisc.edu/acknowledging-trip/>
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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 Assay Report

PCR-based assay performed by WiCell

Lot Release Testing

14May19

FORM SOP-CH-044.03

Version B Edition 01

#	Sample Name	Result	Comments/Suggestions
1	UCSD215i-113-1-WB59923 14637	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
2	Positive (+) Control	Positive	
3	Negative (-) Control	Negative	

Reported by: Brenna Anderson, Research Specialist- Cytogenetics

Reviewed by: Sondra Minter, Cell Culture Specialist

Date: _____ **Sent By:** _____ **Sent To:** _____

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A gel image is available upon request.