

Thaw and Culture Details

Cell Line Name	UCSD052i-56-1							
WiCell Lot Number	WB57717							
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	p20 These cells were cultured for 19 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	19-January-2017							
Vial Label	UCSD052i-56-1 p20 WB57717							
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

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Test Description	Test Provider	Test Method	Test Specification	Result					
	WiCell	SOP-CH-003	Expected karyotype	See Report					
Karyotype by G-banding	G-banding G-banding G-banding G-banding G-banding G-banding Interpretation: This is an abnormal karyotype showing what appears to be a balanced recipro translocation between the long arm (q) of chromosomes 14 and 15 in all cells analyzed. No othe cytogenetic abnormalities were identified at the level of resolution achieved.								
Post-Thaw Viable Cell Recovery	WiCell	WiCell SOP-CH-305 ≥ 15 Undifferentiated Colonies, ≤ 30% Differentiation and recoverable attachment after passage							
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							



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		
07-February-2017	3/29/2018 X HEB HEB Quality Assurance Signed by: Bruner, Haley		



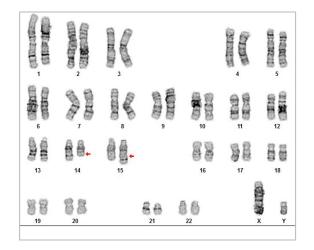
Chromosome Analysis Report: 070797

Date Reported: Tuesday, March 13, 2018
Cell Line: UCSD052i-56-1-WB57717 13488

Passage#: 20

Date of Sample: 3/6/2018 Specimen: Human IPS

Results: 46,XY,t(14;15)(q24.1;q26.1)[20]



Cell Line Gender: Male

Reason for Testing: lot release testing

Investigator: , WiCell

Cell: 27 Slide: G03

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 350 - 550

Interpretation:

This is an abnormal karyotype showing what appears to be a balanced reciprocal translocation between the long arm (q) of chromosomes 14 and 15 in all cells analyzed. No other cytogenetic abnormalities were identified at the level of resolution achieved.

Completed by: , CG(ASCP)

Reviewed and Interpreted by: , PhD, FACMGG

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 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.

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Short Tandem Repeat

Analysis

info@wicell.org (888) 204-1782

HISTOLOGY - IHC - MOLECULAR - IMAGING Department of Pathology and Laboratory Medicine

TRIP Laboratory (Molecular)

http://www.pathology.wisc.edu/research/trip

Sample Report:

13488-STR

Sample Name on Tube: 13488-STR

 $88.3 \text{ ng/}\mu\text{L}$, (A260/280=1.77)

Sample Type: Cells

Cell Count: ~2 million cells

Requestor:

WiCell Research Institute Quality Department

Sample Date: N/A **Receive Date:** 03/12/18 **Assav Date:** 03/13/18

File Name: STR 180314 wmr

Report Date: 03/16/18

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				
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					
CSF1PO	6-15	please, contact WiCell's Technical				
D16S539	39 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					

Results: Based on the 13488-STR cells submitted by WiCell QA dated and received on 03/12/18, this sample (Label on Tube: 13488-STR) defines the STR profile of the human stem cell line UCSD052i-56-1 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human UCSD052i-56-1 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 13488-STR sample submitted corresponds to the UCSD052i-56-1 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 $\sim 2-5\%$.

 \mathbf{X} RMB \mathbf{X} WMR **Digitally Signed on** 03/21/18 Digitally Signed on 03/21/18 PhD, Director / Co-Director BATRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

Native Product Sterility Report



SAMPLE #:

17121502

WiCell

DATE RECEIVED:

21-Dec-17

504 S. Rosa Rd., Rm 101 Madison, WI 53719 TEST INITIATED:

26-Dec-17

TEST COMPLETED:

09-Jan-18

SAMPLE NAME / DESCRIPTION:

UCSD050i-54-1 WB54411 13186 UCSD051i-55-1 WB54717 13187 UCSD052i-56-1 WB57717 13188 UCSD053i-57-1 WB55067 13189 UCSD054i-58-1 WB55461 13190 UCSD055i-59-1 WB54168 13191 UCSD056i-60-1 WB57571 13192 UCSD057i-61-1 WB55674 13193 UCSD058i-62-1 WB57057 13194 UCSD059i-63-1 WB63472 13195 UCSD060i-64-1 WB57102 13196 UCSD063i-20-1 WB62421 13197 WISCO15i-SC7 WB66708 13198 UCSD235i-SAD2-4 WB66703 13199

STAN053i-149-1 WB66707 13200 HVRDi002-A WB66709 13201 WISCO14i-SC1 WB66706 13202 CREM032i-SS48-1 WB66711 13203 UCSD207i-31-2 WB66716 13204

UCSD065i-20-3 WB60829 13205

UNIQUE IDENTIFIER:

NA

PRODUCT REGISTRATION:

Other: Human iPS cells

TEST RESULTS:

# Tested	# Positives (Growth)	- Control		
20	0	2 Negatives		

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

METHOD VALIDATION / PD #:

000053

STERIS Laboratories, Inc. 9303 West Broadway Ave Brooklyn Park, MN 55445

LAB-003 rev 30 Form 5 Effective: 2017-08-29 Page 1 of 2

Native Product Sterility Report



1	FQT	MET	HOD	\cap	OGY:	
ı	E01		пор	UL	UGT.	

USP - Direct Transfer

COMMENTS:

Sample # 17121502

REVIEWED BY Wessel

DATE 10JANI8

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

Testing Performed by WiCell Lot Release Testing March 9th, 2018 FORM SOP-QU-004.01 Version G Edition 02 Reported by: SM Reviewed by: JB Berthold Flash n' Glo 539

		Read	Reading A Rea		Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	UCSD052i-56-1-WB57717 13488	94	99	96.5	36	39	37.5	0.39	Negative	
2	Positive (+) Control	169	167	168	7561	7602	7582	45.13	Positive	
3	Negative (-) Control	286	286	286	38	40	39	0.14	Negative	

