



## Thaw and Culture Details

Cell Line Name	UCSD008i-44-1
WiCell Lot Number	WB66287
Provider	University of California, San Diego – Dr. Kelly Frazer
Banked By	University of California, San Diego – Dr. Kelly Frazer
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 2 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: mTeSR™1
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent mTeSR™1 Protocol
Passage Number	p22 These cells were cultured for 21 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 Viald	23-June-2017
Vial Label	UCSD008i-44-1 p22 WB66287
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
	<p><b>Results:</b> 46,XY,dup(20)(q11.2q11.2)[14]/46,XY[6]  <b>Interpretation:</b> This is an abnormal karyotype. There is an interstitial duplication in the long arm of chromosome 20 in fourteen of twenty cells examined. This abnormality appears to be the recurrent acquired duplication of 20q seen in human pluripotent stem cell cultures. Confirmation of this abnormality by higher resolution (fluorescence in situ hybridization—FISH) testing is recommended. No other clonal defined abnormalities were found.</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-QU-004	Negative	Pass



## Testing Reported by Provider

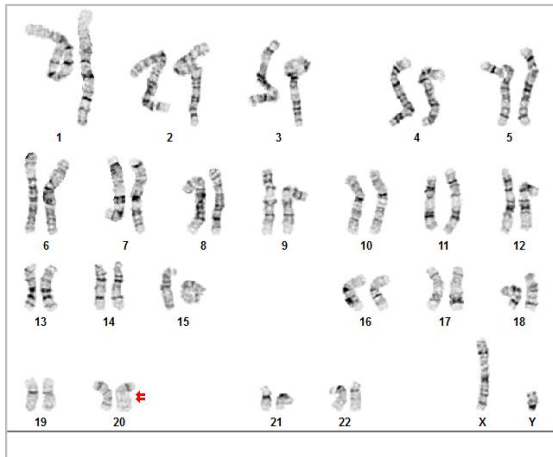
The Provider stated that some or all of the additional analyses listed below may have been performed for this cell line. For more information, publication and dbGaP links, where available, are provided on the cell line specific web page on the WiCell website.

- 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
20-May-2016	<div style="text-align: right; font-size: small;">1/5/2018</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>X</b> JKG <small>JKG Quality Assurance Signed by Gay, Jenna</small></div>

**Date Reported:** Monday, July 24, 2017  
**Cell Line:** UCSD008i-44-1-WB66287 12597  
**Passage#:** 23  
**Date of Sample:** 7/13/2017  
**Specimen:** Human IPS  
**Results:** 46,XY,dup(20)(q11.2q11.2)[14]/46,XY[6]

**Cell Line Gender:** Male  
**Reason for Testing:** Lot release testing  
**Investigator:** [REDACTED] WiCell CDM



**Cell:** 13  
**Slide:** G01  
**Slide Type:** Karyotype  
  
**Total Counted:** 20  
**Total Analyzed:** 8  
**Total Karyogrammed:** 4  
**Band Resolution:** 475 - 575

**Interpretation:**

**This is an abnormal karyotype. There is an interstitial duplication in the long arm of chromosome 20 in fourteen of twenty cells examined. This abnormality appears to be the recurrent acquired duplication of 20q seen in human pluripotent stem cell cultures. Confirmation of this abnormality by higher resolution (fluorescence in situ hybridization—FISH) testing is recommended. No other clonal defined abnormalities were found.**

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

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:**

12597-STR  
**Sample Name on Tube:** 12597-STR  
53.2 ng/μL, (A260/280=2.15)  
**Sample Type:** Cells  
**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute  
Quality Department

**Sample Date:** N/A

**Receive Date:** 07/10/17  
**Assay Date:** 07/18/17  
**File Name:** 170720 STR TCS  
**Report Date:** 07/21/17

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	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 12597-STR cells submitted by WiCell QA dated and received on 07/10/17, this sample (Label on Tube: 12597-STR) defines the STR profile of the human stem cell line UCSD008i-44-1 comprising 25 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human UCSD008i-44-1 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 12597-STR sample submitted corresponds to the UCSD008i-44-1 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<sub>RMB</sub>

Digitally Signed on 07/21/17

X<sub>WMR</sub>

Digitally Signed on 07/21/17

TRIP Laboratory, Molecular

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

# Native Product Sterility Report



## CORRECTED REPORT

WiCell  
504 S Rosa Rd., RM 101  
Madison, WI 53719

SAMPLE #: 17120390  
DATE RECEIVED: 07-Dec-17  
TEST INITIATED: 11-Dec-17  
TEST COMPLETED: 26-Dec-17

SAMPLE NAME / DESCRIPTION: UCSD125i-7-2 WB66673 13110  
UCSD174i-18-2 WB66672 13111  
UCSD177i-17-2 WB66671 13112  
WISC011i-inGFPpuro WB66670 13113  
UCSD008i-44-1 WB66287 13114  
UCSD006i-21-1 WB57101 13116  
UCSD007i-21-2 WB54928 13117  
UCSD013i-16-3 WB61874 13118  
UCSD014i-21-3 WB55344 13119  
UCSD022i-8-3 WB59011 13120  
UCSD023i-8-4 WB58972 13121  
UCSD024i-13-3 WB58691 13122  
UCSD025i-13-4 WB63445 13123  
UCSD026i-9-1 WB54736 13124  
UCSD028i-9-3 WB54172 13125  
UCSD029i-9-4 WB63527 13126  
UCSD030i-23-2 WB58975 13127  
UCSD031i-45-1 WB58276 13128  
UCSD032i-41-1 WB64803 13129  
UCSD085i-6-2 WB61664 13139

UNIQUE IDENTIFIER: NA  
PRODUCT REGISTRATION: 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

# Native Product Sterility Report



TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: Report revised due to incorrect sample name/description.

REVIEWED BY 

DATE 02JAN18

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 6, 2017

FORM SOP-QU-004.01

Version F Edition 02

Reported by: KR

Reviewed by: JB

BD Monolight 180

#	Sample Name	Reading A			Reading B			Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2	Ave	RLU1	RLU2	Ave			
1	UCSD008i-44-1-WB66287 12597	256	265	260.5	120	108	114	0.44	Negative	
2	Positive (+) Control	453	451	452	37998	38147	38073	84.23	Positive	
3	Negative (-) Control	689	716	702.5	102	97	99.5	0.14	Negative	

