

### **Thaw and Culture Details**

Cell Line Name	JHU066i
WiCell Lot Number	DB41116
Provider	Johns Hopkins University – Laboratory of Dr. Lewis Becker
Banked By	Johns Hopkins University – Laboratory of Dr. Lewis Becker
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 5 wells of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.
Culture Platform	Feeder Independent
	Medium: E8
	Matrix: Vitronectin
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p6 These cells were cultured for 6 passages post reprogramming prior to freeze. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.
Date Vialed	16-June-2016
Vial Label	P066 P6 6/16/16 1M
Biosafety and Use Information	This cell line is of human origin. 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	Fail					
	long (q) arm of chron twenty cells examine	Result from report: This is an abnormal karyotype. There is a rearrrangement of the long (q) arm of chromosome 1, consisting of an inversion and a duplication in ten of twenty cells examined. This abnormality results in partial trisomy of 1q, a recurrent acquired abnormality in human pluripotent stem cell cultures.							
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	Recoverable attachment after passage	Pass					
dentity by STR  UW Translational Research Initiatives in Pathology Laboratory		PowerPlex 16 HS System by Promega	Defines profile	Pass					
Sterility	Biotest Laboratories	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.

- Embryoid bodies
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)

Approval Date	Quality Assurance Approval		
26-August-2016	JKG  JKG  Quality Assurance Signed by: Gay, Jenna		



#### Chromosome Analysis Report: 057676

Date Reported: Wednesday, January 25, Cell Line Gender: Male

2017

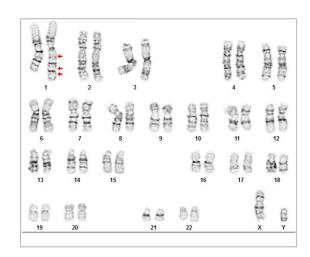
Cell Line: JHU066i-DB41116 12124 Reason for Testing: lot release testing

Passage#: 7

Date of Sample: 1/17/2017 Investigator: , WiCell CDM

Specimen: iPSC

Results: 46,XY,der(1)inv(1)(q21q42.1)dup(1)(q21q32.1)[10]/46,XY[10]



Cell: 30 Slide: 3

Slide Type: Karyotype

Total Counted: 20 Total Analyzed: 10

Total Karyogrammed: 6
Band Resolution: 425 - 475

QC Review By:

#### Interpretation:

Date:

This is an abnormal karyotype. There is a rearrrangement of the long (q) arm of chromosome 1, consisting of an inversion and a duplication in ten of twenty cells examined. This abnormality results in partial trisomy of 1q, a recurrent acquired abnormality in human pluripotent stem cell cultures.

Complete	a by:			
Reviewed	and	Inter	preted	by:

, CG(ASCP)

Sent By:\_\_\_\_ Sent To:\_\_

cell populations in this specimen (i.e.,mosaicism) is limited by the number of metaphase cells examined, documented here as "# of cells counted".

, PhD, FACMG

A signed copy of this report is available upon request.

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

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

WiCell® info@wicell.org (888) 204-1782

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

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

**Sample Report:** 12124-STR

Sample Name on Tube: 12124-STR

 $200.7 \text{ ng/}\mu\text{L}, (A260/280=1.93)$ 

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute Ouality Department **Sample Date:** N/A **Receive Date:** 01/23/17

**Assay Date:** 01/24/17

File Name: STR 170125 wmr

**Report Date:** 01/26/17

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							
TPOX	6-13	been redacted to							
D8S1179	7-18	protect donor confidentiality. If							
vWA	10-22								
Amelogenin	X,Y	more information							
Penta_D	2.2, 3.2, 5, 7-17	is required, please, contact							
CSF1PO	6-15	WiCell's Technica							
D16S539	5, 8-15	Support.							
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								

<u>Results:</u> Based on the 12124-STR cells submitted by WiCell QA dated and received on 01/23/17, this sample (Label on Tube: 12124-STR) defines the STR profile of the human stem cell line JHU066i comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human JHU066i 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 12124-STR sample submitted corresponds to the JHU066i 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	01/27/17	X WMR	Digitally Signed on 01/27/17
TRIP La	boratory, Molecular	_	UWHC Mole	, PhD, Director / Co-Director ecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

### Sterility Report

## Biotest Laboratories, Inc.

Making life-saving products possible

WiCell Research Institute, Inc.

BIOTEST SAMPLE # 17011270

WiCell Quality Assurance

504 South Rosa Road, Room 101 VALIDATION # NG

Madison, WI 53719

TEST PURPOSE NG

PRODUCT JHU064i-DB41110 12126, JHU066i-DB41116 12127, JHU071i-DB41122 12128, JHU117i-

DB41295 12129, JHU125i-DB41326 12130, JHU219i-DB36878 12131, JHU207i-DB36830

12132, JHU208i-DB36834 12133, JHU209i-DB36839 12134, MIN09i-33114.C-WB57126 12155

PRODUCT LOT NA

STERILE LOT NA BI LOT NA

STERILIZATION LOT NA BI EXPIRATION DATE NA

STERILIZATION DATE NA DATE RECEIVED 2017-01-19

STERILIZATION METHOD NA TEST INITIATED 2017-01-20

SAMPLING BLDG / ROOM NA TEST COMPLETED 2017-02-03

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 # POSITIVES # TESTED POSITIVE CONTROL NEGATIVE CONTROL

Sterile 0 10 NA 2 Negatives

COMMENTS NA

REVIEWED BY DATE 03 FEB 17

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 = 9303 West Broadway Ave. = Brooklyn Park, MN 55445 = USA = (763) 315-1200



# Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing January 17, 2017

FORM SOP-QU-004.01 Version F Edition 02 Reported by:OG Reviewed by: JB Berthold Flash n' Glo 539

		Read	ing A	A	Read	ling B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	JHU066i-DB41116 12124	136	134	135	42	41	41.5	0.31	Negative	
2	Positive (+) Control	124	117	120.5	7249	7237	7243	60.11	Positive	
3	Negative (-) Control	234	229	231.5	28	25	26.5	0.11	Negative	

