

### **Thaw and Culture Details**

Cell Line Name	MIN04i-33109.2B							
WiCell Lot Number	WB33713							
Parent Material	MIN04i-33109.2B-WB20383							
Provider	Massachusetts General Hospital							
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	06-May-2016							
Vial Label	MIN04i-33109.2B p25 WB33713							
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 Metho		Test Specification	Result
Karyotype by G-banding	WiCell	SOP-CH-003	Expected karyotype	See Report
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	≥ 15 Undifferentiated Colonies prior to passage, ≤ 30% Differentiation prior to passage, and recoverable attachment after passage	Pass
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Consistent with STR profile of deposited cell line	Pass
Sterility	Steris	ST/07	Negative	Pass
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass



## **Testing Reported by Provider**

Test Description & Method	Result
Embryoid Body Formation	RT(q)PCR (Brachyury, GATA2 - Meso; AFP, Sox17 - Endo; Pax6, MAP2 - Ectoderm)
Pluripotency Markers; AP, Oct4, Nanog, SSEA-3, SSEA-4, TRA1-60	All Markers Expressed

Approval Date	Quality Assurance Approval			
24-June-2016	6/24/2030  X HEB  HBB  Qualify Assurance Signed by: Bruner, Haley			



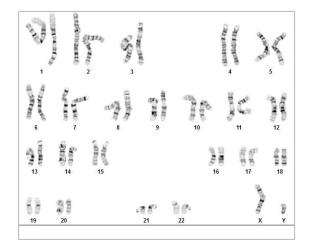
#### Chromosome Analysis Report: 036951

Date Reported: Thursday, June 16, 2016
Cell Line: MIN04i-33109.2B-WB33713 11698

Passage#: 25

Date of Sample: 6/9/2016

Specimen: iPSC Results: 46,XY



Cell Line Gender: Male

Reason for Testing: lot release testing

Investigator: , WiCell CDM

Cell: 14 Slide: 1

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 475 - 525

QC Review By:

#### Interpretation:

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

Completed by:	ken MS, CG(ASCP)
Reviewed and Interpreted by:	, PhD, FACMG

Sent By:\_\_\_\_

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
ic >2 10Mh	dependent upon the C hand resolution obtained from this specimen. For the nurposes of this report, h	and level is defined as the number of G hands per

Sent To:

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.

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:** 11698-STR

**Sample Name on Tube:** 11698-STR

 $78.6 \text{ ng/}\mu\text{L}, (A260/280=1.93)$ 

Sample Type: Cells

**Cell Count:** ~2 million cells

**Requestor:**WiCell Research Institute
Quality Department

Sample Date: N/A Receive Date: 06/20/16 Assay Date: 06/21/16

File Name: STR 160622 wmr

**Report Date:** 06/23/16

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 more information					
Amelogenin	YV						
Penta_D	22.22.5.717						
CSF1PO	6-15	please, contact WiCell's Technical					
D16S539	·						
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 11698-STR cells submitted by WiCell QA dated and received on 06/20/16, this sample (Label on Tube: 11698-STR) exactly matches the STR profile of the human stem cell line MIN04i-33109.2B comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human MIN04i-33109.2B 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 11698-STR sample submitted corresponds to the MIN04i-33109.2B 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 06/	/23/16	X WMR	Digitally Sigr	ned on	06/23/16
TRIP La	boratory, Molecular		UWHC Molec	, PhD, Director / Cular Diagnostics Laborat		

Making life-saving products possible

## CORRECTED REPORT

WiCell	Research Institute, Inc.
WiCell	Quality Assurance

BIOTEST SAMPLE #

16051350

**VALIDATION #** 

NG

**TEST PURPOSE** 

NG

**PRODUCT** 

WA43-WB32660 11659, WA38-WB32549 11656, WA47-WB32596 11658, WA46-WB32595 11657, WA35-WB32392 11654, WA40-WB32393 11660, WA32-WB32295 11652, WA37-WB32294 11655, WA41-WB33024 11661, WA30-WB32033 11651, WA33-WB32032 11653, RUES2-WB33127 11630, WA44-WB33154 11662, WC-52-01U-TG-1-WB33842 11675, WC-52-01U-TG-2-WB33843 11676, WC-52-01U-TG-3-WB33844 11677, iPS(IMR90)-4-WB33712 11663, MIN04i-33109.2B-WB33713 11664, WA14-WB33693 11665, MIN14i-33363.C-WB33622 11666, H9 hNanog-pGZ-WB33582 11667, H9 Cre-LoxP-WB33296 11668, NSC-H14iPSZeng-WB33374 11669, IISH2i-BM9-WB33257 11670, IISHi-BM1-WB33256 11671, WC-52-01A-TG-1-WB33850 11678, WC-52-01A-TG-2-WB33852 11679, WC-52-01A-TG-3-WB33853 11680, MINO3i-32642.B-WB33911 11672

PRODUCT LOT

NA

STERILE LOT

NA

**BILOT** 

NA

STERILIZATION LOT

NA

BI EXPIRATION DATE NA

2016-05-19

STERILIZATION DATE

NA

DATE RECEIVED

STERILIZATION METHOD NA

**TEST INITIATED** 

2016-05-20

SAMPLING BLDG / ROOM NA

**TEST COMPLETED** 

2016-06-03

REFERENCE

Processed according to LAB-003: Sterility Test Procedure

Twenty-nine (29) products were divided between 40 mL TSB and 40 mL FTG. The sample was then cultured at 20-25 C and 30-35 C respectively and was monitored for

a minimum of 14 days.

☑ USP

BI Manufacturers Specifications

☐ Other

**RESULTS** No Growth # POSITIVES 0

# TESTED 29

POSITIVE CONTROL NA

**NEGATIVE CONTROL** 

2 Negatives

**COMMENTS** 

Report revised due to updated product name.

**REVIEWED BY** 

Sientel

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,

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 June 9th, 2016

FORM SOP-QU-004.01 Version F Edition 01 Reported by: SM Reviewed by: JB Berthold Flash n' Glo 539

		Read	ing A	A	Read	ing B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	MIN04i-33109.2B-WB33713 11698	116	123	119.5	47	52	49.5	0.41	Negative	
2	Positive (+) Control	222	230	226	10114	10056	10085	44.62	Positive	
3	Negative (-) Control	341	345	343	35	30	32.5	0.09	Negative	

