



## Thaw and Culture Details

Cell Line Name	MCW071i-U2177
WiCell Lot Number	WB66552
Provider	Medical College of Wisconsin – Laboratory of Dr. Ulrich Broeckel
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: TeSR™-E8™
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p16 These cells were cultured for 15 passages prior to freeze and post colony picking. WiCell adds +1 to the passage number at freeze to best represent what the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 16.
Date Vialied	24-August-2017
Vial Label	MCW071i-U2177 p16 WB66552
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
	<b>Results:</b> 46,XY,t(14;21)(q13;q22.1)[15]/46,XY[4] Nonclonal findings: 46,XY,-8,+18 <b>Interpretation:</b> This is an abnormal karyotype. An apparently balanced translocation between the long (q) arm of chromosome 14 and the long arm of chromosome 21 is present in fifteen of twenty cells examined. No other clonal abnormalities were detected at the stated band level of resolution. There is a nonclonal finding, listed above. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.			
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	Defines STR profile of deposited cell line	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.

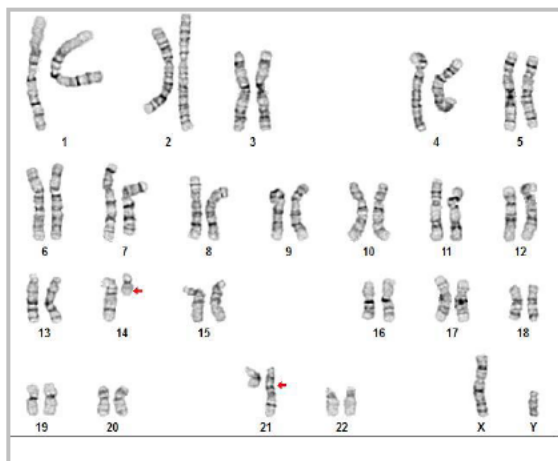
- Tra1-60 marker expression
- mRNA expression by qPCR
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGA<sup>EX</sup>)

Approval Date	Quality Assurance Approval
14-May-2018	<div>5/21/2020</div> <div>X JKG</div> <div>JKG</div> <div>Quality Assurance</div> <div>Signed by Gay, Jenna</div>

**Date Reported:** Wednesday, January 23, 2019  
**Cell Line:** MCW071i-U2177-WB66552 13791  
**Passage#:** 16  
**Date of Sample:** 1/15/2019  
**Specimen:** Human IPS  
**Results:** 46,XY,t(14;21)(q13;q22.1)[15]/46,XY[4]

**Cell Line Sex:** Male  
**Reason for Testing:** Lot Release Testing  
**Investigator:** [REDACTED], WiCell

**Nonclonal findings:** 46,XY,-8,+18



**Cell:** 21  
**Slide:** G01  
**Slide Type:** Karyotype

**Total Counted:** 20  
**Total Analyzed:** 9  
**Total Karyogrammed:** 4  
**Band Resolution:** 475 - 525

## Interpretation:

**This is an abnormal karyotype. An apparently balanced translocation between the long (q) arm of chromosome 14 and the long arm of chromosome 21 is present in fifteen of twenty cells examined. No other clonal abnormalities were detected at the stated band level of resolution.**

**There is a nonclonal finding, listed above. 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](http://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/>  
(608) 265-9168

# Short Tandem Repeat Analysis



Your Lab Partner

[characterization@wicell.org](mailto:characterization@wicell.org)  
(608) 316-4145

## Sample Report:

13791-STR

Sample Name on Tube: 13791-STR

75.9 ng/ $\mu$ L, (A260/280=1.87)

Sample Type: Cells

Cell Count: ~2 million cells

## Requestor:

WiCell Research Institute

Quality Assurance Department

Receive Date: 02/11/19

Report Sent: 02/15/19

Assay Date: 02/12/19

File Name: 02/15/19

Report Date: STR 190212 wmr

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 13791-STR cells submitted by WiCell QA dated and received on 02/11/19, this sample (Label on Tube: 13791-STR) defines the STR profile of the human stem cell line MCW071i-U2177 comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human MCW071i-U2177 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 13791-STR sample submitted corresponds to the MCW071i-U2177 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 *RMB*

Digitally Signed on 02/15/19

*[Redacted]*, BA  
TRIP Laboratory, Molecular

X *WMR*

Digitally Signed on 02/15/19

*[Redacted]*, 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: <http://www.pathology.wisc.edu/research/trip/acknowledging>  
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# Native Product Sterility Report



WiCell  
504 S Rosa Rd, Rm 101  
Madison, WI 53719

**CORRECTED  
REPORT**

SAMPLE #: 17090875  
DATE RECEIVED: 14-Sep-17  
TEST INITIATED: 18-Sep-17  
TEST COMPLETED: 02-Oct-17

SAMPLE NAME / DESCRIPTION: MCW003i-40001883-WB66553\_12835, MCW047i-U2234-WB66549\_12836, MCW071i-U2177-WB66552\_12837, MCW086i-40000176-WB66545\_12838, MCW090i-40000374-WB66557\_12839, MCW091i-U2202-WB66554\_12840, MCW097i-400001654-WB66548\_12841, MCW112i-40000893-WB66551\_12842, MCW116i-40001890-WB66550\_12843, MCW073i-40000527-WB66570\_12844, MCW060i-U2183-WB66559\_12845, JFHZ4-WB66573\_12846, JFHZ5-WB66587\_12847, JFHZ6-WB66583\_12848, JFMD6-WB66581\_12849, JFNY2-WB66584\_12850, JFRB5-WB66569\_12851, JFWT2-WB66586\_12852, JFWT4-WB66582\_12853, UCSD239i-APP2-1-WB66585\_12854, MCW100i-U2341-WB66575\_12881, MCW114i-U2144-WB66566\_12882, iPS(IMR90)-2-WB66588\_12883, UCSD035i-4-4-WB62259\_12884, UCSD064i-20-2-WB63303\_12885, UCSD143i-87-1-WB57685\_12886, UCSD161i-93-1-WB54536\_12887, UCSD199i-107-1-WB59910\_12888, UCSD209i-24-1-WB57661\_12889, UCSD081i-1-14-WB61903\_12890

UNIQUE IDENTIFIER: NA  
PRODUCT REGISTRATION: Other: Human iPS Cells

## TEST RESULTS:

# Tested	# Positives (Growth)	- Control
30	0	2 Negatives

## TEST SUMMARY:

# Samples	Media Type	Volume (mL)	Incubation Temperature (° C)	Incubation Duration (Days)
30	TSB	40	20-25	14
30	FTG	40	30-35	14

REFERENCE: Processed according to LAB-003: Sterility Test Procedure  
METHOD VALIDATION / PD #: 000053  
TEST METHODOLOGY: USP - Direct Transfer

# Native Product Sterility Report

CORRECTED  
REPORT



STERIS

COMMENTS:

Sample # 17090875

Report revised due to Customer request to update Sample Name / Description.

REVIEWED BY

DATE

09/04/17

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.





# PCR Mycoplasma Assay Report

Testing Performed by WiCell

WiCell

16Jan19

FORM SOP-CH-044.03

Version A Edition 01

#	Sample Name	Result	Comments/Suggestions
1	WC040i-17097-01-26-DB66996 14251	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
2	WC039i-17097-01-22-DB66995 14250	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
3	JHU002i-1-DB40935 14247	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
4	JHU152i-DB36333 14249	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
5	JHU238i-DB37055 14232	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
6	STAN070i-169-2-DB31078 14246	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
7	JHU176i-DB36383 14248	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
8	JHU183i-DB36760 14233	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
9	MCW041i-U2104-WB66494 13788	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
10	MCW036i-A3170-WB66501 13783	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
11	MCW071i-U2177-WB66552 13791	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
12	MCW034i-A2780-WB66502 13782	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
13	WC041i-17097-01-34-DB66988 14229	Negative	Band was not seen at 270bp, indicating the absense of mycoplasma
14	Positive (+) Control	Positive	
15	Negative (-) Control	Negative	

Reported by: [REDACTED], Cell Culture Specialist

Reviewed by: [REDACTED] Research Specialist - Cytogenetics

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

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*A gel image is available upon request.*