

#### **Thaw and Culture Details**

Cell Line Name	H1-FMR1-FLAG				
WiCell Lot Number	WB67514				
Provider	University of Wisconsin - Dr. Anita Bhattacharyya and Dr. Xinyu Zhao				
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	p36 These cells were cultured for 35 passages prior to freeze. Cells were modified from WA01 at passage 28. WiCell adds +1 to the passage number at freeze to best represent the overall passage number of the cells at thaw. Plated cells at thaw should be labeled passage 36.				
Date Vialed	16-July-2020				
Vial Label	H1-FMR1-FLAG p36 WB67514				
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
Post-Thaw Viable Cell Recovery	WiCell	SOP-CH-305	<ul> <li>≥ 15 Undifferentiated Colonies prior to passage,</li> <li>≤ 30% Differentiation prior to passage, and recoverable attachment after passage</li> </ul>	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

Approval Date	Quality Assurance Approval		
27-August-2020	8/27/2020 XG Quality Assurance Signed by: Gay, Jenna		

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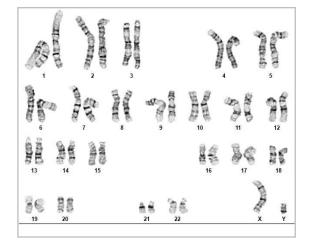
The material provided under this certificate has been subjected to the tests specified and the results and data described herein are accurate based on WiCell's reasonable knowledge and belief. Appropriate Biosafety Level practices and universal precautions should always be used with this material. For clarity, the foregoing is governed solely by WiCell's Terms and Conditions of Service, which can be found at http://www.wicell.org/privacyandterms.



Chromosome Analysis Report: 082128

Date Reported: Friday, July 31, 2020 Cell Line: H1-FMR1-FLAG-WB67514 Submitted Passage #: 36 Date of Sample: 7/24/2020 Specimen: Human Modified ESC Results: 46,XY Cell Line Sex: Male Reason for Testing: LOT\_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell



Conditions of Service are null and void and of no legal force or effect.

Cell: 33 Slide: G03 Slide Type: Karyotype Total Counted: 20 Total Analyzed: 9 Total Karyogrammed: 5 Band Resolution: 425 - 500

#### Interpretation:

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

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. Any terms you may attach to a purchase order or other document that are inconsistent, add to, or conflict with WiCell's Terms and



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Your Lab Partner characterization@wicell.org (608) 316-4145

# **Short Tandem Repeat Analysis**

Requestor: WiCell Characterization

**Receive Date:** 08/05/20 ng/12/20

Report Sent: 0	8/12/2
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	Requestor: Wrech endracterization					· · ·	
Label on tube	82127	82128	82129	82154	82181	82204	82205
Label on Report	JHU027i-DB40972 p.7 (82127)	H1-FMR1-FLAG- WB67514 p.36 (82128)	STAN130i-212C4- WB67515 p.16 (82129)	CREM005i-SS2-1GAG- DB66769 p.42 (82154)	STAN120i-192C2- WB67516 p.18 (82181)	H1-FMR1-KO-WB67517 p.40 (82204)	STAN099i-108C2- WB67518 p.15 (82205)
conc (ng/µL)		167.0					
A260/280		1.84					
Assay Date		8/6/2020					
File Name	Identifying	STR 200807 wmr			Identifying		
FGA	information has	20,24			information has		
ΤΡΟΧ	been redacted to protect donor	8,11			been redacted to protect donor		
D8S1179	confidentiality. If	12,13			confidentiality. If		
vWA	more information	15,17			more information		
Amelogenin	is required, please, contact	X,Y			is required, please, contact		
Penta_D	WiCell's Technical	10,13			WiCell's Technical		
CSF1PO	Support.	12,13			Support.		
D16S539		9,13					
D7S820		8,12					
D13S317		8,11					
D5S818		9,11					
Penta_E		10,12					
D18S51		17,18					
D21S11		28,32.2					
TH01		9.3,9.3					
D3S1358		15,15					
Allelic Polymorphisms	27	28	28	27	25	28	26
Matches*			80512, 70862		77321		79403
Comments							





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## **Short Tandem Repeat Analysis**

Label on tube	82206
Label on Report	STAN378i-886C4- WB67520 p.27 (82206)
conc (ng/μL)	
A260/280	
Assay Date	
File Name	
FGA	Identifying
ΤΡΟΧ	information has
D8S1179	been redacted to
vWA	protect donor confidentiality. If
Amelogenin	more information
Penta_D	is required,
CSF1PO	please, contact WiCell's Technical
D16S539	Support.
D7\$820	
D13S317	
D5\$818	
Penta_E	
D18S51	
D21S11	
TH01	
D3S1358	
Allelic Polymorphisms	28
Matches*	77678
Comments	





# **Short Tandem Repeat Analysis**

**<u>Results</u>**: Based on the DNA submitted by WiCell Characterization Department dated and received on 08/05/20, these samples define the STR profiles of the human cell lines as indicated by name. The genotypic profiles comprise a range of 25-28 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: 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. These results suggests that the cells submitted correspond to the cell lines as named and were not contaminated with any other human 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 cell lines is ~2-5%.

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\* Note: The STR profile of the following sample is an exact match for the given sample/samples.

X RMB Digitally Signed on 08/12/20	X WMR Digitally Signed on 08/12/20			
<i>, BA</i>	, PhD, Director / Co-Director			
TRIP Laboratory, Molecular	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. 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 https://www.wicell.org/media.acux/ca76d97c-862a-43f3-b02a-ab2d1e619100. 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.				

## Native Product Sterility Report



				SAMPLE #:	20071581
WiCell		DATE RECEIVED:			30-Jul-20
504 S Rosa Road, Rm 10	91	TEST INITIATED:			31-Jul-20
Madison, WI 53719				TEST COMPLETED:	14-Aug-20
SAMPLE NAME / DES	SCRIPTION:	MIN12i-33362.C	WB67499		
		WISCe011-A-39	WB67500		
		STAN120i-192C2	WB67516		
		STAN130i-212C4	WB67515		
		STAN099i-108C2	WB67518		
		H1-FMR1-FLAG	WB67514		
		H1-FMR1-KO	WB67517		
		STAN378i-886C4	WB67520		
		STAN206i-459C1	WB67519		
		JHU027i	DB40972		
UNIQUE IDENTIFIER		NA			
TEOT DEOLIN TO					
TEST RESULTS:		# Positives			
	# Tested	(Growth)	- Control		
	10	0	2 Negatives		
TEST SUMMARY:				Incubation	Incubation
				Temperature	Duration
	# Samples	Media Type	Volume (mL		(Days)
	10	TSB	40	20-25	14
	10	FTG	40	30-35	14
REFERENCE:		Processed accor	ding to LAB-003	: Sterility Test Procedu	re
PD #:		000053	0 000	,	
TEST METHODOLOG	2	USP - Direct Tra	nofor		
	a i .	USF - Direct Ira	nster		

COMMENTS: NA

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DATE 24 AnG2020

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REVIEWED BY

## Native Product Sterility Report



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. Results applied to samples as received.



### Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell 28Jul20

Sample Name	Result	Comments/Suggestions
H1-FMR1-FLAG-WB67514 (82049)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN130i-212C4-WB67515 (82050)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN120i-192C2-WB67516 (82084)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: Assistant Cell Culture Specialist Reviewed by: Senior Cell Culture Specialist

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A gel image is available upon request.