

# **Certificate of Analysis**

### **Thaw and Culture Details**

Cell Line Name	H1 MYH11-NLuc-tdTomato			
WiCell Lot Number	WB68133			
Banked By	WiCell			
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 2 well of a 6 well plate TeSR™-E8™ and Cultrex®.			
Protocol	WiCell Feeder Independent Pluripotent	Stem Cell Protocol		
Culture Platform Prior to Freeze	Medium: TeSR <sup>™</sup> -E8 <sup>™</sup> Matrix: Cultrex <sup>®</sup>			
Passage Number	p32 Cells were cultured for 31 passages prior to freeze. Cells were modified at passage 21. Plated cells at thaw should be labeled passage 32.			
Date Vialed	15-June-2023			
Vial Label	H1 MYH11-NLuc-tdTomato p32 WB68133			
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.			



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### **Results**

Test Description	Test Provider	Test Provider Test Method Test Specification		Result	
	WiCell	G-T-L Banding performed on 20 metaphase cells	Expected karyotype	See Report	
Karyotype	Results: 46,XY Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution.				
Post-Thaw Viable Cell Recovery	ost-Thaw Viable WiCell Thaw using specified Thaw & Culture		<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	WiCell PowerPlex 16 HS System by Promega <sup>™</sup>		Defines STR profile of deposited cell line	See Report	
Mycoplasma	lycoplasma WiCell PCR		Amplification of mycoplasma specific DNA detected with negative result	Pass	
Sterility	Steris	Native Product Direct Transfer using FTM and TSB (ST/07)	Negative for growth following 14 days of culture	Pass	

Approval Date	WiCell Quality Assurance Approval	
09-August-2023	T1/9/2023  X Ryen Smith  HEB  WiCell Quality Assurance Signed by: Smith, Ryen	



#### Chromosome Analysis Report: 097828

Date Reported: Friday, July 14, 2023

Cell Line: H1 MYH11-NLuc-tdTomato-

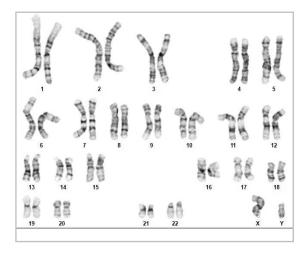
WB68133

Submitted Passage #: 32

Date of Sample: 7/9/2023

Specimen: Human Modified ESC

Results: 46,XY



Cell Line Sex: Male

Reason for Testing: LOT\_RELEASE

Investigator: WiCell Stem Cell Bank, WiCell

Cell: 6

Slide: G01

Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 9

Total Karyogrammed: 5

Band Resolution: 400 - 500

#### Interpretation:

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

Completed by: Erica Schutter, CG(ASCP)

Reviewed and Interpreted by: Vanessa Horner, PhD, FACMG

For internal use only			
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. 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**

Form SOP-89.01 Version 10.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 09Jul23 STR Amplification Date: 20Jul23

Sample Name	H1 MYH11- NLuc- tdTomato- WB68133 p32	
WiCell CTR No.1	97828	
FGA	20, 24	
TPOX	8, 11	
D8S1179	12, 13	
vWA	15, 17	
Amelogenin	X, Y	
Penta_D	10, 13	
CSF1PO	12, 13	
D16S539	9, 13	
D7\$820	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	28	
Matches*	See Matches Comment	
Comments		

\*Note: The STR profile of the following sample is a 100% match for the given sample/samples unless otherwise specified.

<sup>&</sup>lt;sup>1</sup> CTR No.: Characterization Test Request Number; also known as a laboratory accessioning number.



### **Short Tandem Repeat**

Form SOP-89.01 Version 10.0

Requestor: WiCell Stem Cell Bank, WiCell Samples Received: 09Jul23 STR Amplification Date: 20Jul23

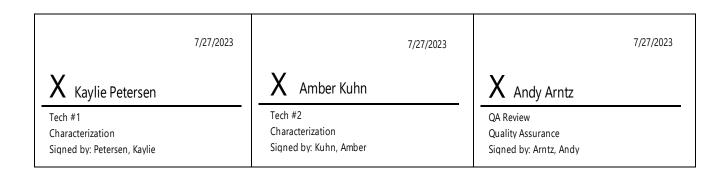
<u>Assay Description:</u> STR analysis is performed using the PowerPlex 16 HS System by Promega<sup>TM</sup>. Results are reported as 13 CODIS STR markers, Amelogenin for gender determination and two low-stutter, highly discriminating pentanucleotide STR markers.

**Results:** The genotypic profiles comprise a range of 28 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> 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.

<u>Sensitivity</u>: Sensitivity limits for detection of STR polymorphisms unique to either this or other human cell lines is ~2-4%.

<u>Matches:</u> Sample 97828 is a 100% match to 97757, 96488, 96463, 94744, 94743, 93806, 86550, 86570, 82881, 82204 and additional profiles. Additional matches can be provided upon request.



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## Mycoplasma Assay Report

PCR-based assay performed by WiCell WiCell Stem Cell Bank, WiCell 18Jul23

Form SOP-83.01 Version 5.0

Sample Name	Result	Interpretation
UCSD243i-LQT3-1-DB68091 p16 (97932)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
UCSD242i-LQT1-1-DB68089 p18 (97931)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
H1 MYH11-NLuc-tdTomato-WB68133 p32 (97828)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Assay Description
Sample is tested for presence of mycoplasma using EZ-PCR <sup>TM</sup> Mycoplasma Detection Kit (Sartorius).

7/18/202	7/18/2023	7/19/2023
X Justin Hobson	X Kaylie Petersen	X Dawn Graham
Tech #1 Characterization Signed by: Hobson, Justin	Tech #2 Characterization Signed by: Petersen, Kaylie	QA Review Quality Assurance Signed by: Graham, Dawn

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A gel image is available upon request.

# Native Product Sterility Report



SAMPLE #:

23070508

DATE RECEIVED:

13-Jul-23

TEST INITIATED:

17-Jul-23

TEST COMPLETED:

31-Jul-23

SAMPLE NAME / DESCRIPTION:

504 S Rosa Road, Rm 101

Madison, WI 53719

WiCell

JHU189i-DB41401

JHU192i-DB36782 JHU215i-DB36857 JHU227i-DB37013 JHU230i-DB37025 JHU081i-DB41140

JHU150i-DB41359

STAN240i-558C3-WB68154 STAN241i-558C4-WB68153

H1 OCT4-EGFP-2A-C.3-WB68155 H1 MYH11-NLuc-tdTomato-WB68133

UCSD247i-LQT1-2-WB68158

**UNIQUE IDENTIFIER:** 

N/A

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
12	0	2 Negatives

**TEST SUMMARY:** 

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

REFERENCE:

Processed according to LAB-003: Sterility Test Procedure

PD #:

000053

**TEST METHODOLOGY:** 

USP - Direct Transfer

COMMENTS:

NA

AUTHORIZED BY

DATE or Aug 2027

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.

9303 West Broadway Ave Brooklyn Park, MN 55445