

### **Thaw and Culture Details**

Cell Line Name	H9-SOX2-GFP						
WiCell Lot Number	WB66727						
Parent Material	H9-SOX2-GFP-DB47477						
Provider	University of California – Dr. Karl Willert						
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	p93 These cells were cultured for 92 passages prior to freeze and post reprogramming. 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 93.						
Date Vialed	22-JANUARY-2018						
Vial Label	H9-SOX2-GFP p93 WB66727						
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** 

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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  ≥ 15 Undifferentiate ≤ 30% Differenti recoverable attach passage		Pass					
Identity by STR	UW Translational Research Initiatives in Pathology Laboratory	PowerPlex 16 HS System by Promega	Consistent with known profile	Pass					
Sterility	Steris	ST/07	Negative	Pass					
Mycoplasma	WiCell	SOP-QU-004	Negative	Pass					

### **Testing Reported by Provider**

Additional information about this cell line is provided on the cell line specific web page on the WiCell website.

- Expression of SOX2, OCT4, and NANOG by quantitative RT-PCR
- Differentiation into endoderm
- Immunofluorescence expressing SOX2, GFP, and NANOG by immunocytochemistry
- Expression of GFP by flow cytometry
- RNA sequencing



Approval Date	Quality Assurance Approval
06-March-2018	3/6/2018  X JKG  JKG  Quality Assurance Signed by Gay, Jenna



### Chromosome Analysis Report: 070311

Date Reported: Wednesday, February 07,

2018

Cell Line: H9-SOX2-GFP-WB66727 13309

Passage#: 93

Date of Sample: 2/1/2018 Specimen: Human ES

Results: 46,XX



Reason for Testing: lot release testing

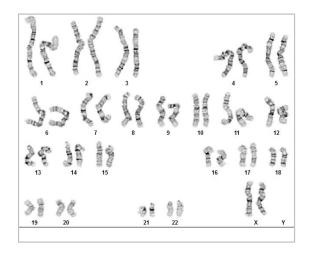
Investigator: , WiCell CDM



Slide Type: Karyotype

Total Counted: 20
Total Analyzed: 8

Total Karyogrammed: 4
Band Resolution: 450 - 550



#### Interpretation:

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

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

A signed copy of this report is available upon request.

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 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.

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## **Short Tandem Repeat Analysis**

**HISTOLOGY - IHC - MOLECULAR - IMAGING** 

Department of Pathology and Laboratory Medicine TRIP Laboratory (Molecular)

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

info@wicell.org (888) 204-1782

**Sample Report:** 

13309-STR

Sample Name on Tube: 13309-STR

 $66.4 \text{ ng/}\mu\text{L}, (A260/280=2.62)$ 

Sample Type: Cells

Cell Count: ~2 million cells

**Requestor:** 

WiCell Research Institute

Quality Department

Sample Date: N/A **Receive Date:** 02/05/18 **Assay Date:** 02/13/18

File Name: STR 180214 wmr

**Report Date:** 02/16/18

STR Locus	Locus STR Genotype Repeat #						
FGA	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						
TPOX	6-13	10,11					
D8S1179	7-18	8,14					
vWA	10-22	17,17					
Amelogenin	X,Y	X,X					
Penta_D	· · · · · · · · · · · · · · · · · · ·						
CSF1PO	6-15	11,11					
D16S539	5, 8-15	12,13					
D7S820	6-14	9,11					
D13S317	7-15	9,9					
D5S818	7-16	11,12					
Penta_E	5-24	11,14					
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	13,13					
D21S11	<b>D21S11</b> 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	<b>TH01</b> 4-9,9.3,10-11,13.3						
D3S1358	12-20	13,16					

Results: Based on the 13309-STR cells submitted by WiCell QA dated and received on 02/05/18, this sample (Label on Tube: 13309-STR) exactly matches the STR profile of the human stem cell line WA09 comprising 24 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human WA09 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 13309-STR sample submitted corresponds to the WA09 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  $\sim 2-5\%$ .

X WMR  $\mathbf{X}$  RMB **Digitally Signed on** 02/16/18 **Digitally Signed on** 02/16/18 PhD, Director / Co-Director TRIP Laboratory, Molecular UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

## Native Product Sterility Report

SAMPLE NAME / DESCRIPTION:



SAMPLE #: 18020291

WiCell DATE RECEIVED: 06-Feb-18

504 S. Rosa Rd., Rm 101 TEST INITIATED: 07-Feb-18

Madison, WI 53719 TEST COMPLETED: 21-Feb-18

CREM015i-SS16-1 WB66723 13311, CREM016i-SS18-1 WB66712 13312,

CREM019i-SS25-1 WB66728 13313, CREM021i-SS29-1 WB66729 13314, H9-SOX2-GFP WB66727 13315, WC005i-FX11-7 WB20338 13316, WC009i-FX08-01 WB17924 13317, PENN015i-668-5 DB36410 13318, PENN029i-752-3 DB36392 13319, PENN009i-57-52 DB35131 13320, PENN034i-322-1 DB34729 13321, PENN077i-521-1 DB36597 13322, PENN125i-233-4 DB35073 13323, PENN136i-

262-1 DB35081 13324, UCSD048i-52-1 WB66722 13325, UCSD208i-111-1 WB66730 13326, UCSD133i-79-1 WB61228 13327, UCSD152i-11-3 WB61663 13328, UCSD168i-22-1 WB61577 13329, UCSD170i-22-3 WB60774 13330, UCSD175i-18-3 WB60837 13331, UCSD066i-67-1 WB60392 13332, UCSD099i-

35-2 WB65030 13334, UCSD117i-72-1 WB60039 13335, UCSD119i-38-2 WB60256 13336, UCSD125i-7-2 WB59219 13337, UCSD128i-7-5 WB60297 13338, UCSD151i-11-2 WB59218 13339, UCSD158i-12-4 WB60020 13340, UCSD088i-6-5 WB53942 13341, UCSD147i-10-2 WB54174 13342, UCSD167i-99-

1 WB54407 13343, UCSD198i-23-1 WB54163 13344, UCSD098i-35-1 WB55340 13345, UCSD100i-36-1 WB55460 13346, UCSD129i-75-1 WB54795 13347, UCSD136i-82-1 WB54902 13348, UCSD139i-85-1 WB55345 13349, UCSD173i-

18-1 WB54899 13350, UCSD187i-104-1 WB55339 13351, UCSD206i-31-1 WB54794 13352, UCSD217i-115-1 WB55069 13353, UCSD218i-116-1 WB55459

13354, UCSD094i-25-1 WB55177 13355, UCSD095i-25-2 WB57580 13356, UCSD097i-34-2 WB57100 13357, UCSD113i-68-1 WB57056 13358, UCSD115i-

70-1 WB55081 13359, UCSD184i-8-1 WB55338 13360, UCSD188i-105-1

WB55082 13361

UNIQUE IDENTIFIER:

PRODUCT REGISTRATION:

NA

Other: Human iPS cells

**TEST RESULTS:** 

# Tested	# Positives (Growth)	- Control
50	0	3 Negative

**TEST SUMMARY:** 

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

REFERENCE: Processed according to LAB-003: Sterility Test Procedure

METHOD VALIDATION / PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

STERIS Laboratories, Inc. 9303 West Broadway Ave Brooklyn Park, MN 55445

## Native Product Sterility Report



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Sample # 18020291

REVIEWED BY

DATE 22 FEBIS

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.



# Mycoplasma Detection Assay Report Testing Performed by WiCell

Testing Performed by WiCell Lot Release Testing February 1, 2018

FORM SOP-QU-004.01 Version G Edition 02 Reported by: AP Reviewed by: JB BD Monolight 180

		Read	ing A	A	Read	ing B	В	Ratio		
#	Sample Name	RLU1	RLU2	Ave	RLU1	RLU2	Ave	B/A	Result	Comments/Suggestions
1	H9-SOX2-GFP-WB66727 13309	201	204	202.5	82	80	81	0.40	Negative	
2	Positive (+) Control	428	443	435.5	14287	14372	14330	32.90	Positive	
3	Negative (-) Control	650	672	661	61	56	58.5	0.09	Negative	

