




## Thaw and Culture Details

Cell Line Name	<b>Elf1</b>
WiCell Lot Number	<b>WB67433</b>
Parent Material	Elf1-WB17042
Provider	University of Washington – Laboratory of Dr. Carol Ware
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 2 wells of a 6 well plate.
Culture Platform	Feeder Dependent
	Medium: Elf-1 cKOSR
	Matrix: MEF 3.5x10 <sup>4</sup> cells/cm <sup>2</sup>
Protocol	Feeder-Dependent Pluripotent Stem Cell Culture Protocols and Supplement Culture of Elf1 Cells
Passage Number	p14 These cells were cultured for 13 passages prior to freeze. 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 14.
Date Viald	24-February-2020
Vial Label	Elf1 p14 WB67433
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	≥ 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-CH-044	Negative	Pass

Approval Date	Quality Assurance Approval
23-April-2020	<div style="text-align: right;">4/23/2020</div>  JKG Quality Assurance Signed by: Gay, Jenna

**Date Reported:** Wednesday, March 18, 2020

**Cell Line:** E1f1-WB67433

**Passage#:** 15

**Date of Sample:** 3/10/2020

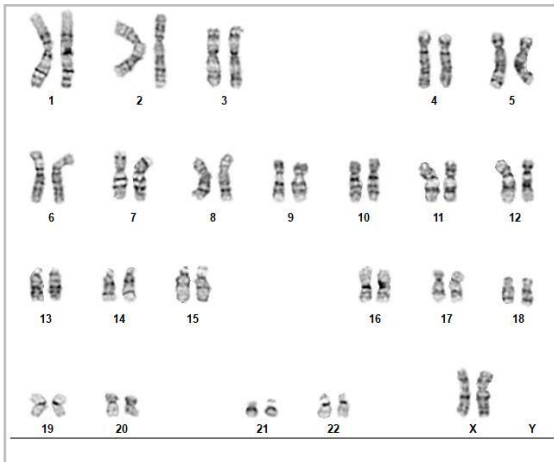
**Specimen:** Human ESC

**Results:** 46,XX

**Cell Line Sex:** Female

**Reason for Testing:** LOT\_RELEASE

**Investigator:** WiCell Stem Cell Bank, WiCell



**Cell:** 101

**Slide:** G01

**Slide Type:** Karyotype

**Total Counted:** 20

**Total Analyzed:** 8

**Total Karyogrammed:** 4

**Band Resolution:** 375 - 400

**Interpretation:**

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

**Completed by:** [REDACTED], CG(ASCP)

**Reviewed and Interpreted by:** [REDACTED], Ph.D.

**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.*

# Short Tandem Repeat Analysis

Receive Date: 03/23/20

Report Sent: 04/21/20

Requestor: WiCell Characterization

Label on tube	MCW087i-U7112-WB67434 p.21 (80872)	CREM049i-BR21-1-DB66767 p.16 (80873)	CREM050i-BR23-1-DB66768 p.15 (80874)	WISCe011-A-40-WB67443 p.9 (80875)	SCRPO203i-DB42677 p.11 (80886)	CREM058i-BR43-1-DB66777 p.10 (80895)	CREM054i-BR33-1-DB66773 p.7 (80898)
Label on Report	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support</a> .						
conc (ng/μL)							
A260/280							
Assay Date							
File Name							
FGA							
TPOX							
D8S1179							
vWA							
Amelogenin							
Penta_D							
CSF1PO							
D16S539							
D7S820							
D13S317							
D5S818							
Penta_E							
D18S51							
D21S11							
TH01							
D3S1358							
Allelic Polymorphisms							
Matches*							
Comments							



**HISTOLOGY - IHC - MOLECULAR – IMAGING**

Department of Pathology and Laboratory Medicine

TRIP Laboratory (Molecular)

<https://research.pathology.wisc.edu/trip-home/>

(608) 265-9168



Your Lab Partner

[characterization@wicell.org](mailto:characterization@wicell.org)

(608) 316-4145

## Short Tandem Repeat Analysis

Label on tube	Elf1-WB67433 p.16 (80899)	CREM024i-SS36-1- WB67440 p.12 (80952)	SCRPO302i-DB42682 p.14 (80953)	STAN312i-906C3-DB44421 p.16 (81039)
Label on Report	Elf1-WB67433 p.16 (80899)	Identifying information has been redacted to protect donor confidentiality. If more information is required, please, contact <a href="#">WiCell's Technical Support</a> .		
conc (ng/μL)	26.3			
A260/280	1.77			
Assay Date	4/16/2020			
File Name	STR 200417 wmr			
FGA	24,24			
TPOX	8,9			
D8S1179	13,14			
vWA	17,18			
Amelogenin	X,X			
Penta_D	13,14			
CSF1PO	10,11			
D16S539	11,11			
D7S820	8,10			
D13S317	11,13			
D5S818	11,13			
Penta_E	5,12			
D18S51	15,18			
D21S11	29,31			
TH01	6,8			
D3S1358	16,16			
Allelic Polymorphisms	27			
Matches*	16479			
Comments				



**HISTOLOGY - IHC - MOLECULAR – IMAGING**  
 Department of Pathology and Laboratory Medicine  
 TRIP Laboratory (Molecular)  
<https://research.pathology.wisc.edu/trip-home/>  
 (608) 265-9168



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

# Short Tandem Repeat Analysis

**Results:** Based on the DNA submitted by WiCell Characterization Department dated and received on 03/23/20, these samples define the STR profiles of the human cell lines as indicated by name. The genotypic profiles comprise a range of 26-30 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%.

<sup>1</sup> For sample 80874 a microvariant exists at the D3S1358 loci with a size less than 11 but undefined due to the lack of sizing standard prior to 11 at this loci.

**Acknowledge TRIP in your publications, posters & presentations. For details, see:**  
<https://research.pathology.wisc.edu/acknowledging-trip/>

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

X *RMB*

Digitally Signed on 04/21/20

██████████, BA

TRIP Laboratory, Molecular

X *WMR*

Digitally Signed on 04/21/20

██████████ 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.

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



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

SAMPLE #: 20030283  
DATE RECEIVED: 05-Mar-20  
TEST INITIATED: 06-Mar-20  
TEST COMPLETED: 20-Mar-20

SAMPLE NAME / DESCRIPTION: MCW021i-50001743 WB67429  
MCW084i-U2053 WB67427  
MCW115i-U2143 WB67428  
SCR5402i WB67430  
MCW102i-UR117 WB67432  
MCW108i-U2165 WB67431  
CREM048i-BR3-1 DB66766  
CREM049i-BR21-1 DB66767  
CREM050i-BR23-1 DB66768  
CREM061i-BT1-1 DB66780  
CREM062i-BT2 DB66781  
Elf1 WB67433  
STAN133i-215C1 DB44608  
STAN134i-215C2 DB44611  
STAN291i-827C1 DB44304  
STAN292i-827C2 DB44307  
STAN251i-637C1 DB44371  
STAN311i-906C1 DB44418  
STAN312i-906C3 DB44421  
STAN360i-465C2 DB44240  
STAN088i-060C1 DB35739  
STAN164i-352C1 DB35976  
STAN165i-352C5 DB35979  
STAN230i-533C1 DB35783  
STAN231i-533C2 DB35786  
(see remainder in comments)

UNIQUE IDENTIFIER: NA

## TEST RESULTS:

# Tested	# Positives (Growth)	- Control
30	1	2 Negatives

# Native Product Sterility Report



## 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

## PD #:

000053

## TEST METHODOLOGY:

USP - Direct Transfer

## COMMENTS:

Sample # 20030283

Sample labeled ISMMS 827i C2P16 AP 030416 in Media Type TSB is positive.

### Sample Name/Description continued:

SCRPO302i DB42682  
SCRPO104i DB42002  
SCRPO202i DB42005  
SCRPO203i DB42677  
SCRPO307i DB42014

REVIEWED BY

DATE

20 MAR 2020

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

04Mar20

FORM SOP-CH-048.01

Version B Edition 01

Sample Name	Result	Comments/Suggestions
MCW099i-40000558-WB67411 (80709)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW072i-40001708-WB67413 (80710)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW102i-UR117-WB67432 (80716)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW108i-U2165-WB67431 (80717)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Elf1-WB67433 (80718)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
MCW062i-U2157-WB67410 (80719)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC123 02Mar20KR (80720)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
INC149 02Mar20AP (80721)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [REDACTED], Cell Culture Specialist

Reviewed by: [REDACTED], Cell Culture Specialist

*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.*

*A gel image is available upon request.*