



Thaw and Culture Details

Cell Line Name	STAN093i-081C1
WiCell Lot Number	WB67435
Provider	Stanford University – Laboratory of Dr. Thomas Quettermous
Banked By	WiCell
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 3 wells of a 6 well plate using mTeSR1™ and Matrigel®
Protocol	WiCell Feeder Independent mTeSR1™ Protocol
Culture Platform Prior to Freeze	Feeder Independent
	Medium: mTeSR1™
	Matrix: Matrigel®
Passage Number	p18 These cells were cultured for 17 passages prior to freeze and post colony selection. 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 18.
Date Vialied	28-February-2020
Vial Label	STAN093i-081C1 p18 WB67435
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
	<p>Results: 46,XX,dup(20)(q11.2q11.2)[4]/47,XX,+12[2]/46,XX[14] Interpretation: This is an abnormal karyotype. There are two unrelated abnormal clones. The cells in the predominant clone (four of twenty cells examined; representative image on the right) contain an interstitial duplication in the long (q) arm of chromosome 20. There is a known recurrent acquired duplication at this location in human pluripotent stem cell cultures; we recommend that this abnormality be confirmed by higher resolution testing. The cells in the secondary clone (two of twenty cells examined; representative image on the left) contain an additional copy of chromosome 12. Gain of chromosome 12 is recurrently acquired in pluripotent stem cell cultures. No other clonal abnormalities were detected at the stated band level of resolution.</p>			
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.

- RNA-Seq
- Whole Genome Sequencing

Approval Date	Quality Assurance Approval
30-July-2020	<p style="text-align: right;">7/18/2023</p> <p>X Ryen Smith</p> <hr/> <p><small>JKI Quality Assurance Signed by Smith, Ryen</small></p>

Date Reported: Friday, March 13, 2020

Cell Line Sex: Female

Cell Line: STAN093i-081C1-WB67435

Reason for Testing: LOT_RELEASE

Passage#: 18

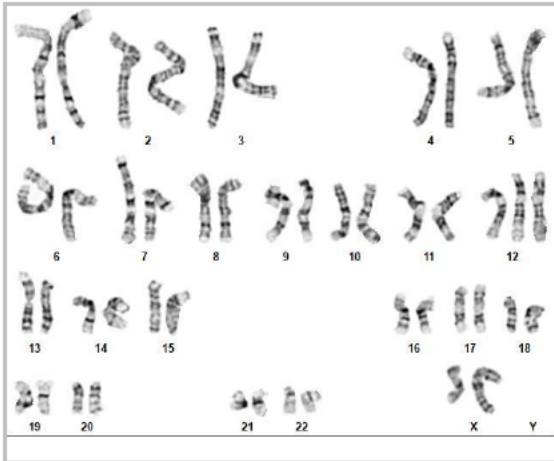
Date of Sample: 3/6/2020

Investigator: WiCell Stem Cell Bank, WiCell

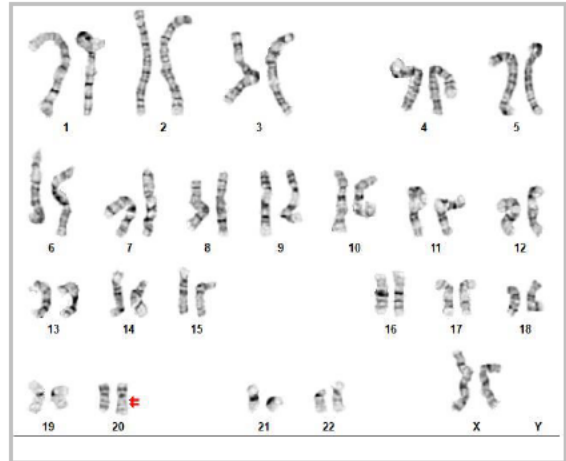
Specimen: Human iPSC

Results: 46,XX,dup(20)(q11.2q11.2)[4]/47,XX,+12[2]/46,XX[14]

Cell: 8 Slide: G01 Slide Type: Karyotyping



Cell: 24 Slide: G01 Slide Type: Karyotyping



Total Counted: 20

Total Analyzed: 9

Total Karyogrammed: 5

Band Resolution: 425 - 475

Interpretation:

This is an abnormal karyotype. There are two unrelated abnormal clones.

The cells in the predominant clone (four of twenty cells examined; representative image on the right) contain an interstitial duplication in the long (q) arm of chromosome 20. There is a known recurrent acquired duplication at this location in human pluripotent stem cell cultures; we recommend that this abnormality be confirmed by higher resolution testing.

The cells in the secondary clone (two of twenty cells examined; representative image on the left) contain an additional copy of chromosome 12. Gain of chromosome 12 is recurrently acquired in pluripotent stem cell cultures.

No other clonal abnormalities were detected at the stated band level of resolution.

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

Case #: 080794

Cell Line: STAN093i-081C1-WB67435

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.



HISTOLOGY - IHC - MOLECULAR - IMAGING

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

Short Tandem Repeat Analysis



characterization@wicell.org
(608) 316-4145

Sample Report:
STAN093i-081C1-WB67435 p.18 (80794)

Requestor:
WiCell Research Institute
Characterization Department

Receive Date: 03/09/20
Report Sent: 03/16/20
Assay Date: 03/10/20
File Name: STR 200311 wmr
Report Date: 03/16/20

80.9 ng/ μ L, (A260/280=1.79)

Sample Type: DNA

Cell Count: N/A

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 WiCell's Technical Support .
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 STAN093i-081C1-WB67435 p.18 (80794) DNA submitted by WiCell Characterization Department dated and received on 03/09/20, this sample (Label on Tube: STAN093i-081C1-WB67435 p.18 (80794)) defines the STR profile of the human cell line STAN093i-081C1 comprising 27 allelic polymorphisms across the 15 STR loci analyzed.

Interpretation: No STR polymorphisms other than those corresponding to the human STAN093i-081C1 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 STAN093i-081C1-WB67435 p.18 (80794) sample submitted corresponds to the STAN093i-081C1 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 cell lines is ~2-5%.

X *RMB*

Digitally Signed on 03/16/20

BA
TRIP Laboratory, Molecular

X *WMR*

Digitally Signed on 03/16/20

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.

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

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Native Product Sterility Report



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

SAMPLE #: 20061484
DATE RECEIVED: 25-Jun-20
TEST INITIATED: 01-Jul-20
TEST COMPLETED: 15-Jul-20

SAMPLE NAME / DESCRIPTION:



SCRPO307i-WB67453
STAN093i-081C1-WB67435
SCRPO402i-DB42018
GFAP-R416W-WB67486
GFAP-R416R-WB67485
GFAP-R88R-WB67491
MIN09i-33114.C-WB67492
CHB8-DB66974

UNIQUE IDENTIFIER:

NA

TEST RESULTS:

# Tested	# Positives (Growth)	- Control
10	0	2 Negatives

TEST SUMMARY:

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

Native Product Sterility Report



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

PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: NA

REVIEWED BY

A handwritten signature in blue ink, consisting of a large, stylized 'C' followed by a horizontal line and a wavy flourish.

DATE

16 JUL 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

11Mar20

FORM SOP-CH-048.01

Version B Edition 01

Sample Name	Result	Comments/Suggestions
MCW087i-U7112-WB67434 (80753)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN093i-081C1-WB67435 (80754)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: [REDACTED], Assistant Research Specialist

Reviewed by: [REDACTED] Assistant Research Specialist

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A gel image is available upon request.