

Thaw and Culture Details

Cell Line Name	STAN311i-906C1		
WiCell Lot Number	DB44418		
Provider	Stanford University – Laboratory of Dr. Thomas Quetermous		
Banked By	Icahn School of Medicine at Mount Sinai Stem Cell Core		
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 2 wells of a 6 well plate. WiCell recommends thawing using ROCK Inhibitor for best results.		
Culture Platform	Feeder Independent		
	Medium: mTeSR1™		
	Matrix: Matrigel®		
Protocol	WiCell Feeder Independent mTeSR1™Protocol		
Passage Number	p13 These cells were cultured for 13 passages after colony picking prior to freeze. Add +1 to the passage number to best represent the overall passage number of the cells at thaw.		
Date Vialed	25-August-2015		
Vial Label	ISMMS 906i C1P13 AP 082515		
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
	WiCell	SOP-CH-003	Expected karyotype	See Report
Karyotype by G-banding	Results: 46,XY Nonclonal findings: 47,XY,+8 47,XY,+17 Interpretation: This is a normal karyotype; no clonal abnormalities were detected at the stated band level of resolution. There are nonclonal findings, listed above, which contain chromosomal aberrations (gain of chromosome 8, gain of chromosome 17) recurrently acquired in pluripotent stem cell cultures. An additional twenty cells were examined for these chromosomal aberrations; they were not observed. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.			
Post-Thaw Viable Cell Recovery	WiCell SOP-CH-305 Recoverable attachment after passage Pass			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

Test Description	Method	Result
Mycoplasma	Lonza MycoAlert kit	Negative

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
- Infinium® Expanded Multi-Ethnic Genotyping Array (MEGAEX)

Approval Date	Quality Assurance Approval	
08-November-2016	JKG JKG Quality Assurance Signed by Gay, Jenna	



Chromosome Analysis Report: 080669

Date Reported: Thursday, March 5, 2020 Cell Line Sex: Male

Cell Line: STAN311i-906C1-DB44418 Reason for Testing: LOT_RELEASE

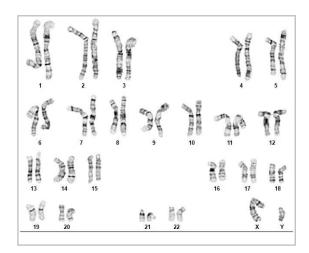
Passage#: 15

Date of Sample: 2/28/2020 Investigator: WiCell Stem Cell Bank, WiCell

Specimen: Human IPSC

Results: 46,XY

Nonclonal findings: 47,XY,+8 47,XY,+17



Cell: 91

Slide: G01

Slide Type: Karyotype

Total Counted: 40
Total Analyzed: 9

Total Karyogrammed: 4

Band Resolution: 500 - 550

Interpretation:

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

There are nonclonal findings, listed above, which contain chromosomal aberrations (gain of chromosome 8, gain of chromosome 17) recurrently acquired in pluripotent stem cell cultures. An additional twenty cells were examined for these chromosomal aberrations; they were not observed. Nonclonal findings may result from technical artifact, but may be due to a developing clonal abnormality or to low-level mosaicism.

Completed by:		, CG(ASCP)	
Reviewed and Interpreted by:		, 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. 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



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

characterization@wicell.org (608) 316-4145

Sample Report: STAN311i-906C1-DB44418 p.15 D02 (80669)

WiCell Research Institute

Requestor:

Receive Date: 03/02/20 **Report Sent:** 03/14/20 **Assay Date:** 03/10/20

Sample Name on Tube: STAN311i-906C1-DB44418 p.15 D02 (80669)

Characterization Department

File Name: STR 200311 wmr

 $52.4 \text{ ng/}\mu\text{L}, (A260/280=1.66)$

Sample Type: DNA Cell Count: N/A **Report Date:** 03/14/20

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
TPOX	6-13	been redacted to
D8S1179	7-18	protect donor
vWA	10-22	confidentiality. If
Amelogenin	X,Y	more information
Penta_D	2.2, 3.2, 5, 7-17	is required,
CSF1PO	6-15	please, contact
D16S539	5, 8-15	WiCell's Technical
D7S820	6-14	Support.
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 STAN311i-906C1-DB44418 p.15 D02 (80669) cells submitted by WiCell Characterization Department dated and received on 03/02/20, this sample (Label on Tube: STAN311i-906C1-DB44418 p.15 D02 (80669)) defines the STR profile of the human cell line STAN311i-906C1 comprising 26 allelic polymorphisms across the 15 STR loci analyzed.

<u>Interpretation:</u> No STR polymorphisms other than those corresponding to the human STAN311i-906C1 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 STAN311i-906C1-DB44418 p.15 D02 (80669) sample submitted corresponds to the STAN311i-906C1 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 03/14/20

X WMR Digitally Signed on 03/14/20

BA
TRIP Laboratory, Molecular

TRIP Laboratory, Molecular

UWHC Molecular Diagnostics Laboratory / UWSMPH TRIP Laboratory

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
SCRP5402i	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 c	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:

SCRP0302i DB42682 SCRP0104i DB42002 SCRP0202i DB42005 SCRP0203i DB42677 SCRP0307i DB42014

REVIEWED BY

DATE 26 MAK 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

FORM SOP-CH-048.01 Version B Edition 01

PCR-based assay performed by WiCell
WiCell
24Feb20

G I V		
Sample Name	Result	Comments/Suggestions
STAN292i-827C2-DB44307 (80508)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN088i-060C1-DB35739 (80509)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN164i-352C1-DB35976 (80510)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN360i-465C2-DB44240 (80511)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN331i-952C3-DB44191 (80533)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN332i-952C5-DB44194 (80534)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN312i-906C3-DB44421 (80535)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN251i-637C1-DB44371 (80536)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
CREM024i-SS36-1-DB48037 (80537)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN252i-637C2-DB44374 (80538)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
STAN311i-906C1-DB44418 (80539)	Negative	Band was not seen at 270bp, indicating the absence of mycoplasma.
Positive (+) Control	Positive	
Negative (-) Control	Negative	

Reported by: Assistant Research Specialist Reviewed by: Assistant Research Specialist

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A gel image is available upon request.