



## Thaw and Culture Details

Cell Line Name	EFNB2-tdTomato/EPHB4-EGFP
WiCell Lot Number	DB66613
Provider	University of Wisconsin – Dr. James Thomson
Banked By	University of Wisconsin – Dr. James Thomson
Thaw and Culture Recommendations	WiCell recommends thawing 1 vial into 8 wells of a 6 well plate.
Culture Platform	Feeder Independent
	Medium: E8 Medium
	Matrix: Matrigel®
Protocol	WiCell Feeder Independent E8 Medium Protocol
Passage Number	p42 These cells were cultured for 41 passages prior to freeze. Cells were targeted for modification individually. B2 was targeted at p25 and then B4 at p30. Plated cells at thaw should be labeled passage 42.
Date Vialied	25-August-2017
Vial Label	25AUG17 H1 B2-B4 C29 p42 JAB
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	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-QU-004	Negative	Pass

Approval Date	Quality Assurance Approval
04-January-2019	<div>5/27/2020</div> <div>X HEB</div> <div>HEB</div> <div>Quality Assurance</div> <div>Signed by: Bruner, Haley</div>



## Chromosome Analysis Report: 074260

**Date Reported:** Tuesday, December 18, 2018

**Cell Line:** EFNB2-tdTomato/EPHB4-EGFP-DB66613 14163

**Passage#:** 43

**Date of Sample:** 12/13/2018

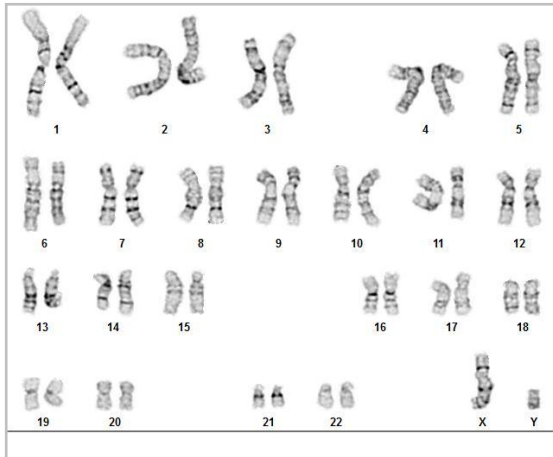
**Specimen:** Human Other

**Results:** 46,XY

**Cell Line Sex:** Male

**Reason for Testing:** Lot release testing

**Investigator:** [REDACTED] WiCell



**Cell:** 7

**Slide:** G03

**Slide Type:** Karyotype

**Total Counted:** 20

**Total Analyzed:** 8

**Total Karyogrammed:** 4

**Band Resolution:** 400 - 525

### Interpretation:

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

**Completed by:** [REDACTED]

**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 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.*



HISTOLOGY - IHC - MOLECULAR - IMAGING

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

# Short Tandem Repeat Analysis



Your Lab Partner

[characterization@wicell.org](mailto:characterization@wicell.org)  
(608) 316-4145

**Sample Report:**

14163-STR

**Sample Name on Tube:** 14163-STR

71.2 ng/ $\mu$ L, (A260/280=1.84)

**Sample Type:** Cells

**Cell Count:** ~2 million cells

**Requestor:**

WiCell Research Institute

Quality Assurance Department

**Receive Date:** 12/17/18

**Report Sent:** 12/21/18

**Assay Date:** 12/18/18

**File Name:** STR 181218 wmr

**Report Date:** 12/21/18

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	20,24
TPOX	6-13	8,11
D8S1179	7-18	12,13
vWA	10-22	15,17
Amelogenin	X,Y	X,Y
Penta_D	2.2, 3.2, 5, 7-17	10,13
CSF1PO	6-15	12,13
D16S539	5, 8-15	9,13
D7S820	6-14	8,12
D13S317	7-15	8,11
D5S818	7-16	9,11
Penta_E	5-24	10,12
D18S51	8-10, 10.2, 11-13, 13.2, 14-27	17,18
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	28,32.2
TH01	4-9,9.3,10-11,13.3	9.3,9.3
D3S1358	12-20	15,15

**Results:** Based on the 14163-STR cells submitted by WiCell QA dated and received on 12/17/18, this sample (Label on Tube: 14163-STR) defines the STR profile of the human stem cell line EFNB2-tdTomato/EPHB4-EGFP comprising 28 allelic polymorphisms across the 15 STR loci analyzed.

**Interpretation:** No STR polymorphisms other than those corresponding to the human EFNB2-tdTomato/EPHB4-EGFP 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 14163-STR sample submitted corresponds to the EFNB2-tdTomato/EPHB4-EGFP 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 ~2-5%.

X *RMB*

Digitally Signed on 12/21/18

BA  
TRIP Laboratory, Molecular

X *WMR*

Digitally Signed on 12/21/18

, 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: <http://www.pathology.wisc.edu/research/trip/acknowledging>  
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# Native Product Sterility Report



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

SAMPLE #: 18111110  
DATE RECEIVED: 15-Nov-18  
TEST INITIATED: 26-Nov-18  
TEST COMPLETED: 10-Dec-18

SAMPLE NAME / DESCRIPTION: LUEL8357i-3 WB66939 14103  
LUEL8679i-4 WB66940 14104  
STAN100i-108C4 DB44605 14105  
STAN099i-108C2 DB44602 14106  
STAN207i-459C2 DB35961 14107  
STAN206i-459C1 DB35958 14108  
STAN216i-496C1 DB35535 14109  
LUEL7159i-7 WB66914 14110  
EFNB2-tdTomato/EPHB4-EGFP DB66613 14116  
JHU012i-2 DB36196 14117

UNIQUE IDENTIFIER: NA  
PRODUCT REGISTRATION: Other: Human iPS cells

## TEST RESULTS:

# Tested	# Positives (Growth)	- Control
10	1	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

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

METHOD VALIDATION / PD #: 000053

TEST METHODOLOGY: USP - Direct Transfer

COMMENTS: Sample labeled LUEL7159i-7 WB66914 14110 is positive in TSB and FTG.

REVIEWED BY

DATE 20DEC18

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

Lot Release Testing

December 13, 2018

FORM SOP-QU-004.01

Version G Edition 02

Reported by: SM

Reviewed by: JB

Berthold Flash n' Glow 539

#	Sample Name	Reading A		A Ave	Reading B		B Ave	Ratio B/A	Result	Comments/Suggestions
		RLU1	RLU2		RLU1	RLU2				
1	EFBN2-tdTomato/EPHB4-EGFP-DB66613 14163	109	105	107	38	42	40	0.37	Negative	
2	Positive (+) Control	190	185	187.5	10777	10762	10770	57.44	Positive	
3	Negative (-) Control	297	292	294.5	29	26	27.5	0.09	Negative	

