

iPSC	Line:	

Cedars-Sinai RMI Induced Pluripotent Stem Cell (iPSC) Core Certificate of Analysis (COA)

Cell Line Name	
CS Vial ID #(s)	
Date Vialed	
Passage Number	

The following testing specifications have been met for the specified cell line:

Test Description	Test Specification	Result
Mycoplasma	No contamination detected	
Alkaline Phosphatase Staining	Positive AP staining	
Karyotype by G-Banding	Normal Karyotype	
Pluripotency		
Illumina gene-chip expression and bioinformatics assay (<u>PluriTest</u>)	Pluripotency score ≥ 20 and novelty score ≤ 1.6	
Immunocytochemistry (IF-IC)	OCT3/4, NANOG, SOX2, TRA-1-60, TRA-1-81, SSEA4	
<u>TaqMan® hPSC Scorecard™ Assay</u>	Confirm appropriate expression of self-renewal factors	
Differentiation		
EB Formation	Successful Embryoid Body (EB) formation and trilineage potential after 14 days	
TaqMan® hPSC Scorecard™ Assay	Confirm tri-lineage differentiation potential Endoderm, Ectoderm and Mesoderm	
Plasmid Integration		
Genomic DNA PCR	Confirm lack of exogenous plasmid presence	
Parent Cell Line Lineage Determinati	on	
TCRB + TCRG T-Cell Clonality Assay (Blood derived cell lines only)	Confirm presence or absence of clonal T-cell receptor beta chain and gamma chain gene rearrangements in iPSCs	
Cell Line Authentication		
<u>STR Analysis</u>	Confirm identity matching score is above 80%	

DHRUV SAREEN, Ph.D CORE DIRECTOR



CONTACT INFORMATION:

Core Director: Dhruv Sareen, Ph.D.	Institution: Cedars-Sinai RMI Induced Pluripotent Stem Cell Core
Phone Number: (310) 423-7074	Address: 8700 Beverly Blvd. AHSP 8500
Email Address: iPSCCore@cshs.org	Los Angeles, CA 90048 USA
PARENT LINE IDENTIFICATION	N AND INFORMATION:
Parent Cell Line:	
Age at Tissue Sampling:	
Phenotypic Sex:	Male Female
Clinical Diagnosis (if known):	
Specific Mutations (if known):	
Additional Information:	
REPROGRAMMING INFORMA	ATION:
iPSC Line Name:	
Vial ID(s):	
Starting Cell Type:	PBMC Fibroblast Other:
Reprogramming Method:	Episomal Sendai Virus Other:
Reprogramming Factors:	Oct3/4 Sox2 KLF4 L-Myc shp53 Lin28
Other:	
CULTURING INFORMATION: MEDIUM:	
Growth Medium:	
Company:	
Catalog #:	

iPSC Line: _____



SUBSTRATE:			
Substrate Specification:			
Company:			
Catalog #:			
Coating Concentration:			
PASSAGING METHOD:			
Method:	STEMPRO EZPassage Tool	Versene (EDTA)	ReLeSR
Passaging Frequency:	7 days	7 days	7 days
Average Split Ratio:	1:6	1:9	1:6
Cell Line Preferred Method:			
Rate of Differentiation:	High (≥50%)	Moderate (30-40%)	Low (≤20%)
Freezing Media:			
Recovery Media:			
CHARACTERIZATION OF HIND	IEEEDENTIATED DI LIDID	OTENT OF LUNE	
CHARACTERIZATION OF UND	IFFERENTIATED PLURIP	OTENT CELL LINE:	
G-BAND KARYOTYPE:			
Performed By:			
Passage Number:			
Karyotyping Analysis & Results:			
Interpretation:			
Comments:			
PLURITEST:			
	Dage	.;	Typhysta TDD
Final Result:	Pass Fa	il Further [Evaluate TBD
Pluripotency Score:			
Novelty Score:			

iPSC Line: _____



MMUNOCYTOCHEMISTRY:							
Sites i Continuo itti	AP	SSEA-4	Tra-1-60	Tra-1-81	Nanog	Oct4	Sox2
Pluripotency Marker:							
N 464 415 INITEGS 471641	\(C C						
PLASMID INTEGRATION ANAL	<u>YSIS:</u>						
bsence of plasmid integration coا آ							
	EBNA	Negative	Ef	BNA Positiv	е	ТВС)
Result:							
Passage #:							
CHADACTEDIZATION OF DIFFE	DENITIAT	ION DOTEI	NITIAI •				
CHARACTERIZATION OF DIFFE							
his cell line has been assessed fo							
14 Day Embryoid Body Forma	tion	TaqMan	[®] hPSC Scor	ecard™ Ass	ay ₋	PCR	
nPSC SCORECARD DATA ANALYSIS:				1			
	Self-Rer	newal	Endodern	n E	ctoderm	Mes	oderm
iPSC (Day 0):							
Score:							
EBs (Day 14):							
Score:							
Comments:							
PARENT CELL LINE LINEAGE D	ETERMIN	IATION:					
Blood derived cell lines only)							
	TCR-αβ TCR-γδ						
T-Cell Clonality Assay:	Po:	sitive	Negati	ve	Positive	\	legative
Final Result:	T-Cell Derived Non T-Cell Derived TBD						

iPSC Line: _____



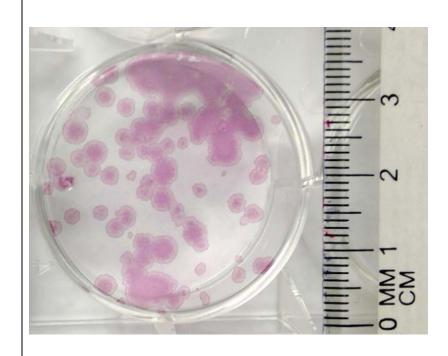
iPSC Line:	

ELL LINE	AUTHENTIC	ATION:						
Parent Cell	Line:							
AMEL	CSF1PO	D13S317	D16S539	D5S818	D7S820	TH01	TPOX	vWA
iPSC Line:								
AMEL	CSF1PO	D13S317	D16S539	D5S818	D7S820	TH01	TPOX	vWA
% Identity	Match·							
IDEXX IBR #								
	. ,							
DDITION	AL INFORM	ATION:						



CS0791iCTR-LBCn1

Alkaline Phosphatase Staining



Oct4/SSEA4/DAPI

