

NIGMS HUMAN GENETIC CELL REPOSITORY Induced Pluripotent Stem Cell (iPSC) Submission Form

SECTION 1: CONTACT INFORMATION

Principal Investigator (individual in whose laboratory this iPSC line was derived):
Submitting Institution (Institution where this iPSC line was derived):
Laboratory Contact Information:
Name:
Phone:
Email:
SECTION 2: INVENTORY INFORMATION
iPSC cell line name/identifier:
Passage number at freeze (should be greater than or equal to 10)::
Label on tube:
Starting material cell type: Fibroblast Other (please describe):
SECTION 3: REPROGRAMMING INFORMATION
Reprogramming method: Episomal MRNA Sendai virus mediated Lentiviral Retroviral Other (please specify):
Reprogramming vectors: Yamanaka (please specify): Thomson (please specify): Addgene (please specify if available): CytoTune® (please specify if available):
Reprogramming genes: KLF4 LMYC CMYC shp53 OCT4 SOX2 NANOG LIN28A Other:
Date of iPSC establishment:

Has the original cell line and/or iPSC line been described in a publication?
Yes (please list reference(s) with PubMed ID(s)):
□ No
SECTION 4: CULTURING INFORMATION
Growth media (please list base media, serum and additives; if commercially available, please list commercial name and supplier):
Is this line grown on a feeder layer? Yes (please list source of feeder cells): No
Is this line grown on substrate-coated dishes? Yes (please specify): No Other (please specify):
Concentration of FGF:
Do you use ROCK inhibitor in recovery media? Yes (please specify concentration of ROCK inhibitor): No
Passaging method (choose one): Collagenase EDTA TryplE Other (please specify): Dispase EZ Tool Trypsin
Passage frequency (choose one): 5 days 6 days Other (please specify):
Split ratio (choose one): 1:3 1:5 Other (please specify):
Approximate % of spontaneous differentiation present in iPSC culture:
Do you use ROCK inhibitor in passage media? Yes (please specify concentration of ROCK inhibitor): No
Freeze media (please list base media, serum and additives; if commercially available, please list commercial name and supplier):

SECTION 5: CHARACTERIZATION OF UNDIFFERENTIATED IPSC LINE

Was	immunostaining done?
	Yes No
Was	RT-PCR done?
	Yes
Ħ	No
mRN	A or protein expression detected for:
	GDF3 NANOG SSEA3 TRA-1-81
Ħ	KLF4 DOUSF1 (Oct4) SSEA4 Other (please specify):
Ħ	LIN28A REXO1 TERT
H	MYC (c-Myc) SOX2 TRA-1-60
ш	TWITE (C WIYE) SOX2 TWA 1 00
Was	this iPSC line tested for genomic integration of reprogramming vectors?
	Yes
	No
What	method was used to test for integrations?
14/	
was a	genomic integration of reprogramming vectors detected in this iPSC line?
\vdash	Yes
	No
ш	No
 What	
What	was the copy number of any integrated reprogramming vector components?
What	
_	was the copy number of any integrated reprogramming vector components?
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SECT	was the copy number of any integrated reprogramming vector components? ION 6: CHARACTERIZATION OF iPSC DIFFERENTIATION POTENTIAL
SECT	is was the copy number of any integrated reprogramming vector components? ION 6: CHARACTERIZATION OF iPSC DIFFERENTIATION POTENTIAL this iPSC line been assessed for pluripotency by:
SECT	ION 6: CHARACTERIZATION OF iPSC DIFFERENTIATION POTENTIAL his iPSC line been assessed for pluripotency by: Pluritest. Performed at (name of facility):
SECT	is was the copy number of any integrated reprogramming vector components? ION 6: CHARACTERIZATION OF iPSC DIFFERENTIATION POTENTIAL his iPSC line been assessed for pluripotency by: Pluritest. Performed at (name of facility): Scorecard™
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SECT Has t	is was the copy number of any integrated reprogramming vector components? ION 6: CHARACTERIZATION OF iPSC DIFFERENTIATION POTENTIAL his iPSC line been assessed for pluripotency by: Pluritest. Performed at (name of facility): Scorecard™ Teratoma formation. Performed at (name of facility):
SECT Has t	is was the copy number of any integrated reprogramming vector components? ION 6: CHARACTERIZATION OF iPSC DIFFERENTIATION POTENTIAL his iPSC line been assessed for pluripotency by: Pluritest. Performed at (name of facility): Scorecard™ Teratoma formation. Performed at (name of facility): nod(s) of in vitro differentiation (please indicate all that apply):
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SECT Has t	ION 6: CHARACTERIZATION OF iPSC DIFFERENTIATION POTENTIAL his iPSC line been assessed for pluripotency by: Pluritest. Performed at (name of facility): Scorecard™ Teratoma formation. Performed at (name of facility): IOd(s) of in vitro differentiation (please indicate all that apply): Adipocyte differentiation Hematopoietic differentiation Neural differentiation (EZ Sphere method) Cardiomyocyte differentiation Neural differentiation (retinoic acid) Dopaminergic neurons (co-culture with PA6 cells) Pancreatic differentiation
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SECT Has t	ION 6: CHARACTERIZATION OF iPSC DIFFERENTIATION POTENTIAL his iPSC line been assessed for pluripotency by: Pluritest. Performed at (name of facility): Scorecard™ Teratoma formation. Performed at (name of facility): IOd(s) of in vitro differentiation (please indicate all that apply): Adipocyte differentiation Hematopoietic differentiation Neural differentiation (EZ Sphere method) Cardiomyocyte differentiation Neural differentiation (retinoic acid) Dopaminergic neurons (co-culture with PA6 cells) Pancreatic differentiation
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SECTION 7: ADDITIONAL CHARACTERIZATION

Was	cytogenetic testing performed?
	Yes
Ш	No If yes:
	1. At what passage?
	Provide the karyotype (current ISCN nomenclature):
	3. What test methodology was used (FISH, aCGH, etc.)?
Has t	his iPSC line been characterized for a specific mutation (e.g., point mutation, trinucleotide repeat)? Yes No
	If yes, please describe the results (gene 1: allele 1; gene 1: allele 2; gene 2; allele 1; gene 2: allele 2) and reference sequence ID, if known:
Has t	his iPSC line been genotyped (e.g., DNA microarrays or array CGH)? Yes No
	If yes, please indicate the platform(s) used and provide link to data, if available:
Has t	his iPSC line undergone other characterization(s) (e.g., transcriptome, epigenome, etc.)? Yes No If yes, please indicate the platform(s) used and provide link to data, if available:
Has t	his iPSC line undergone DNA fingerprinting? Yes No
Was	mycoplasma detected in this iPSC line? Yes Not tested No
	se provide any other relevant information regarding this cell line (e.g., does this cell line have any other gene, fluorescent reporter or other modification? If yes, please provide details):
SECT	TION 8: GENE-EDITING
Was	this iPSC line gene-edited?
	Yes
1 1	No

If yes, please indicate the gene-editing method(s) used:
Describe the method(s) of how gene-editing was performed:
Please provide passage number prior to editing along with post-editing passage number (e.g., p10+4):
Has the introduced mutation been verified by DNA sequencing? Yes No If yes, please describe the type of sequencing performed:
Has the cell line been screened for off-target effects by DNA sequencing? Yes No If yes, please describe the type of sequencing performed and number of off-targets sites screened:
SECTION 9: PARENTAL CELL SOURCE
Parental cell source (name of biobank, clinical site, etc.): If the parental cells (e.g., fibroblast, lymphoblast) ARE banked in Coriell Cell Repositories (Coriell), provide the Coriell ID (2 letters followed by 5 numbers):
If the parental cells were <u>NOT</u> obtained from Coriell, please complete APPENDIX 1 (page 7).
SECTION 10: RELEASE, PERMISSION, AND CONSENT Has IRB-approved informed consent been obtained from the sample donor? Yes No
Is an unsigned copy of this consent form attached? Yes Not applicable; please describe:
Date this iPSC line will be available for submission to the NIGMS Repository: Were parental cells collected using a consent form allowing general research use of the cells? Yes
□ No

Is this iPSC line already banked at Coriell or elsewhere?

Yes; please list organization:
□ No
Number of requests received for this iPSC line:
Was the sample donor consented for biobanking with an external biobank? Yes No
Do you wish to request release of this iPSC line only to yourself or your designee during the first 12 months following submission? Yes No
To your knowledge, are there restrictions that would limit redistribution of this iPSC line? Yes No
Please explain any restrictions that would limit redistribution of this iPSC line:
Additional comments:

The cells and/or DNA derived from submitted samples may be distributed to scientists for many different types of research. The cells from submitted samples may also be used to create modified cell lines.

Scientists may use sample(s) submitted to the NIGMS Human Genetic Cell Repository ("NIGMS Repository") to study the sample donor's DNA and may share what they learn with other scientists. Data resulting from the use of submitted samples may be used in a research publication. In that event, the sample donor's name or other personally identifying information will not be included, as this information is not available to the scientists. The sample donor will not be provided with any specific information or results generated from research using his/her specimen. However, there is a small possibility that the sample donor could learn that a sample described in research came from him/her and indirectly learn information about his/her sample.

If the sample donor informs me that he/she no longer wish to have his/her sample(s) in the NIGMS Repository, I may contact the NIGMS Repository by phone (856-757-4822) or by e-mail (NIGMS@coriell.org) and request that the donor's remaining undistributed sample(s) and accompanying clinical information be withdrawn from the NIGMS Repository. However, it will not be possible to destroy samples and information that have already been distributed to researchers, and it will not be possible to remove any mention of my sample(s) in publications.

Unless a sample has been submitted directly to the NIGMS Repository by a sample donor, the NIGMS Repository does not store the sample donor's name or any other personally identifying information. Therefore, any request for sample withdrawal must be made through me. As the investigator sending the donor's sample to the NIGMS Repository, only I may have the link between the sample donor's identity and his/her sample. I understand that a sample donor will be able to withdraw his/her sample ONLY if I have the link between the donor's name and the Sample ID Number(s) submitted to the NIGMS Repository.

I agree NOT to share with anyone the link between the NIGMS Repository catalog identification number and personally identifying information from the donor of the sample being submitted to the NIGMS Repository.

I understand that no financial compensation or medical benefits will be extended to the individual from whom the sample was collected or to the sample submitter.

I hereby grant permission for cells from this sample to be stored in the NIGMS Repository and for progeny cells, derived DNA and other products (such as RNA) to be distributed to qualified investigators in academic or commercial laboratories. Scientists are strictly prohibited from distributing the cell lines directly derived from NIGMS Repository samples, or material directly isolated from them, in commercial products or services. However, scientists may use information learned from studies on the sample(s) to develop commercial products or services. (See the NIGMS Human Genetic Cell Repository Material Transfer Agreement (MTA) or visit https://catalog.coriell.org/1/NIGMS/How-to-Order for provisions regarding distribution of materials derived from your submission.)

I certify that none of the blood samples, biopsies or cell cultures submitted to the NIGMS Repository has been obtained from a live fetus, defined by the presence of a pulse, circulation, and other vital signs.

Submitting Investigator's Name (please print):		 			
Submitting Investigator's Address:	 				
Telephone #:	 				
Fax #:	 	 			
E-mail:	 				
Submitting Investigator's Signature:		Date:	1	/	

APPENDIX 1: DATA FOR PARENTAL CELLS/SAMPLE DONOR NOT AT CORIELL

If the parental cells were <u>NOT</u> obtained from Coriell, please:

- O Complete section below
- Provide a sample of cells or DNA from the parental cell line for identity confirmation and chromosomal analysis.

Sample type submitted for identity confirmation: Cells DNA			
Parental cell or DNA ID number:			
Parental cells tissue type (e.g., skin, blood, etc.):			
Parental cells tissue site (e.g., lung, arm, etc.):			
Parental cell line type (e.g., lymphoblast, fibroblast, etc.):			
Age of sample donor at time of sample collection: Days Years Unknown Weeks Fetal weeks Months Newborn			
Is the sample donor still living? Yes No; age of death: Don't know			
Phenotypic sex of sample donor: Male			
Ethnicity of sample donor: Hispanic Non-Hispanic Unknown			
Race of sample donor: American Indian/Alaskan Native White Asian Unknown Black/African American Other (please specify): Native Hawaiian/Other Pacific Islander			
Ancestry of sample donor:			
Phenotype of sample donor (description of donor phenotype relevant to diagnosis):			

ource of clinical information (please attach copies of reports/summaries/records):				
Autopsy report Supplied with originating cell line				
Genetics Clinic report Publication				
Medical records Specialist report				
Physical exam Supplied with originating cell line				
Primary Care Physician report Other (please specify):				
linical diagnosis of sample donor (e.g., name of disease, carrier, apparently healthy):				
OMIM #:				
isease status of sample donor:				
Affected Unknown				
Not affected Not applicable				
age of sample donor at diagnosis:				
☐ Days ☐ Years ☐ Unknown				
Weeks Fetal weeks				
Months Newborn				
ge of sample donor at onset of symptoms:				
Days Years Unknown				
Weeks Fetal weeks				
Months Newborn				
ample donor diagnosed by:				
ample donor diagnosed by: Geneticist Primary care physician				
Geneticist Primary care physician				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist				
Geneticist Primary care physician				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): Sthere a family history of this condition?				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify):				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): Sthere a family history of this condition?				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): Sthere a family history of this condition? Yes				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): Sthere a family history of this condition? Yes No				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): Sthere a family history of this condition? Yes No If yes, and no pedigree is available, please describe the relationship of the sample donor to other				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): Sthere a family history of this condition? Yes No If yes, and no pedigree is available, please describe the relationship of the sample donor to other				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): Sthere a family history of this condition? Yes No If yes, and no pedigree is available, please describe the relationship of the sample donor to other				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): Sthere a family history of this condition? Yes No If yes, and no pedigree is available, please describe the relationship of the sample donor to other	:			
Geneticist Maternal fetal medicine/genetic counselor Pediatrician Specialist Other (please specify): Sthere a family history of this condition? Yes No If yes, and no pedigree is available, please describe the relationship of the sample donor to other affected individuals. Please also briefly describe the phenotype(s) of the affected family member(s):				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): sthere a family history of this condition? Yes No If yes, and no pedigree is available, please describe the relationship of the sample donor to other affected individuals. Please also briefly describe the phenotype(s) of the affected family member(s): lave samples from other family members been submitted to the NIGMS Repository or any other Coriell	: 			
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Specialist Pediatrician Other (please specify): Sthere a family history of this condition? Yes No If yes, and no pedigree is available, please describe the relationship of the sample donor to other affected individuals. Please also briefly describe the phenotype(s) of the affected family member(s): lave samples from other family members been submitted to the NIGMS Repository or any other Coriell epository?				
Geneticist				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Other (please specify): Sthere a family history of this condition? Yes No If yes, and no pedigree is available, please describe the relationship of the sample donor to other affected individuals. Please also briefly describe the phenotype(s) of the affected family member(s):				
Geneticist				
Geneticist Primary care physician Maternal fetal medicine/genetic counselor Other (please specify): Sthere a family history of this condition? Yes No If yes, and no pedigree is available, please describe the relationship of the sample donor to other affected individuals. Please also briefly describe the phenotype(s) of the affected family member(s):				
Geneticist				

Has o	cytogenet Yes	ic testing of a specimen from the sample donor been performed?
	No No	
	If yes:	1. Provide the karyotype (current ISCN nomenclature):
		2. What test methodology was used (FISH, aCGH, etc.)?
Has r	nolecular Yes No	genetic testing of a specimen from the sample donor been performed?
Has t	-	tal cell line been characterized for a specific mutation (e.g., point mutation, trinucleotide
	If yes:	1. Describe the results (gene 1: allele 1; gene 1: allele 2; gene 2; allele 1; gene 2: allele 2) and reference sequence ID, if known:
		2. What test methodology was used? PCR Southern Blot Sequencing Other (please specify):
Bioch	nemical te Yes No	esting:
Ш	_	1. Enzyme(s)/activity level(s):
		2. Abnormal metabolite(s):
Othe	r testing (e.g., imaging, EKG, EEG, biopsy, pathology):
	Test/re	esult 1:
		esult 2:
	Test/re	esult 3:
Pleas	se add or a	attach any other relevant information: