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BIHi001-A

Registration Summary:

A P E C

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General

hPSCreg name	BIHi001-A
Cite as:	BIHi001-A (RRID:CVCL_IT54)
Alternative name(s)	BCRT-3, BCRT#1
Cell line type	Human induced pluripotent stem cell (hiPSC)
Similar lines	BIHi001-A-1 UHi006-A BIHi001-B (iBCRT Cas9v1-3G-KI.16) (HEL24.3)
Last update	25th April 2022
User feedback <small>show/hide</small>	No feedback available yet. Login to share your feedback, experiences or results with the research community.
Generator	Berlin Institute of Health (BIH) Contact: Berlin Institute of Health (BIH)
Owner	Berlin Institute of Health (BIH)
Distributors	Berlin Institute of Health (BIH)
Derivation country	Germany



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Wikidata

Q54796557

Publications

- Hossini AM et al. PI3K/AKT Signaling Pathway Is Essential for Survival of Induced Pluripotent Stem Cells. PloS one. 2016;11(5):e0154770.
- Buonocore F et al. Somatic mutations and progressive monosomy modify SAMD9-related phenotypes in humans. The Journal of clinical investigation. 2017 May 1;127(5):1700-1713.
- Fenske P et al. Autaptic cultures of human induced neurons as a versatile platform for studying synaptic function and neuronal morphology. Scientific reports. 2019 Mar 20;9(1):4890.
- Sürün D et al. Efficient Generation and Correction of Mutations in Human iPS Cells Utilizing mRNAs of CRISPR Base Editors and Prime Editors. Genes. 2020 May 6;11(5).
- Ebner-Peking P et al. Self-assembly of differentiated progenitor cells facilitates spheroid human skin organoid formation and planar skin regeneration. Theranostics. 2021;11(17):8430-8447.
- Krisch L et al. Improving Human Induced Pluripotent Stem Cell-Derived Megakaryocyte Differentiation and Platelet Production. International journal of molecular sciences. 2021 Jul 30;22(15).
- Luo Y et al. A novel approach for studying mast cell-driven disorders: Mast cells derived from induced pluripotent stem cells. The Journal of allergy and clinical immunology. 2022 Mar;149(3):1060-1068.e4.

*** Is the cell line readily obtainable for third parties?**

✓ Yes
 Research use: ✓ allowed
 Clinical use: ✗ not allowed
 Commercial use: ✗ not allowed

Subclones

BIHi001-A-1 BIHi001-A-2 BIHi001-A-3 BIHi001-A-4 BIHi001-A-5 BIHi001-A-6

Donor Information **Sex**

male

Age of donor (at collection)

neonate

Ethnicity

Caucasian, White



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Disease associated phenotypes	no phenotypes
Has the donor karyotype been analysed?	<i>Unknown</i>
Is there genome-wide genotyping or functional data available?	<p>✓ Yes</p> <p>SNP typing array</p>
Other cell lines of this donor	<div style="display: flex; gap: 5px;"> <div style="border: 1px solid orange; padding: 2px 5px;">UOSi001-A</div> <div style="border: 1px solid orange; padding: 2px 5px;">UOSi001-B</div> <div style="border: 1px solid orange; padding: 2px 5px;">BIHi001-B</div> <div style="border: 1px solid orange; padding: 2px 5px;">UHi006-A</div> </div>
BioSamples	SAMEA103885930
Ethics	
Has informed consent been obtained from the donor of the embryo/tissue from which the pluripotent stem cells have been derived?	Yes
Was the consent voluntarily given?	Yes
Has the donor been informed that participation will not directly influence their personal treatment?	Yes
Can you provide us with a copy of the Donor Information Sheet provided to the donor?	No
Please provide contact information of the holder of the original Donor Information Sheet.	http://www.lgcstandards-atcc.org/en/Support/LGC_Contact_Us.aspx
Do you (Depositor/Provider) hold the original Donor Consent Form?	No
If you do not hold the Donor Consent Form, do you know who does?	Yes
Please provide the contact information	http://www.lgcstandards-atcc.org/en/Support/LGC_Contact_Us.aspx





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Please indicate whether the data associated with the donated material has been pseudonymised or anonymised.	anonymised
Does consent explicitly allow the derivation of pluripotent stem cells?	Yes
Does consent expressly prevent the derivation of pluripotent stem cells?	No
Does consent prevent CELLS DERIVED FROM THE DONATED BIOSAMPLE from being made available to researchers anywhere in the world?	No
How may genetic information associated with the cell line be accessed?	No information
Will the donor expect to receive financial benefit, beyond reasonable expenses, in return for donating the biosample?	No
Has a favourable opinion been obtained from a research ethics committee, or other ethics review panel, in relation to the Research Protocol including the consent provisions?	No
Has a favourable opinion been obtained from a research ethics committee, or other ethics review panel, in relation to the PROPOSED PROJECT, involving use of donated embryo/tissue or derived cells?	No
For generation of the cell line, who was the supplier of any recombinant DNA vectors or commercial kits used?	

HIPSC Derivation

Source cell line name	<p>CCD-1112Sk</p> <p>Other names</p> <p>SAMN03472834 in BioSamples</p> <p>CVCL_2769 in Cellosaurus</p> <p>CRL-2429 in ATCC</p> <p>Derived from same source line (potentially other lot and donor, see below):</p> <p> UOSi001-A UOSi001-B BIHi001-B UHi006-A UODi001-A ULBi003-A UQi001-A </p>
Source cell type	<p><i>Dermal fibroblast</i></p> <p><i>Dermal fibroblasts are the major cell type in dermis and are commonly accepted as terminally differentiated cells.</i></p>



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Synonyms

prepuce preputium penile prepuce

[+](#) show more synonyms

Age of donor (at collection) neonate

Source cell line vendor [ATCC](#)

Vector type Non-integrating

Vector Sendai virus

Genes

- [POU5F1](#)
- [SOX2](#)
- [KLF4](#)
- [MYC](#)

Is reprogramming vector detectable? × No

Methods used PCR

Derived under xeno-free conditions × No

Derived under GMP? × No

Available as clinical grade? × No

Culture Conditions

Surface coating Matrigel/Geltrex

Feeder cells × No

Passage method Enzyme-free cell dissociation
EDTA





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Medium	Essential 8™
Has Rock inhibitor (Y27632) been used at passage previously with this cell line?	✓ Yes
Has Rock inhibitor (Y27632) been used at cryo previously with this cell line?	✗ No
Has Rock inhibitor (Y27632) been used at thaw previously with this cell line?	✓ Yes

Characterisation

Analysis Of Undifferentiated Cells

Marker Expression ✗

Marker	Expressed	Immunostaining	RT-PCR	Flow Cytometry	Enzymatic Assay	Expression Profiles
NANOG	✓ Yes	✓		✓		✓
SSEA-1	✗ No			✓		✓
SSEA-4	✓ Yes	✓		✓		
TRA 1-60	✓ Yes	✓				
POU5F1 (OCT-4)	✓ Yes	✓		✓		

PluriTest ✗

Pluripotency Score

Novelty Score

[Link to microarray data](#)



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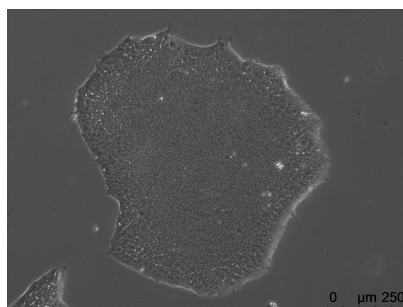
arrayexpress/experiments/E-MTAB-5145

Report

 20160805_HSt_Report_PluriTest_BIHi001-A.pdf

Morphology ×

Morphology pictures



Transcriptome Characterisation

Gene Expression Array ×

 <http://www.ebi.ac.uk/arrayexpress/experiments/E-MTAB-5145>

Differentiation Potency

Endoderm ×

Mesoderm ×

HIV 1	Negative
HIV 2	Negative
Hepatitis B	Negative



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Is there a certificate of analysis available?

✓ Yes

Passage:

Genotyping

Has the cell line karyotype been analysed?

✓ Yes

46,XY

Karyotyping method: KaryoLite Bobs

Register cell line

All cell lines

All hESC

All hiPSC

General

Code of practice

Links

Cell line providers

Research projects

Countries

Diseases

Publications

Privacy Policy

Terms of Use

Imprint

FAQ

Certification

Cell line registration

Glossary

hPSCreg®

Structures

Naming tool

API

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