



EBiSC Catalogue User Guide

European Bank for induced pluripotent Stem Cells





https://cells.ebisc.org & http://ebisc.org/

The EBiSC - European Bank for induced pluripotent Stem Cells project has received support from the Innovative Medicines Initiative Joint Undertaking under grant agreement n° 115582, resources of which are composed of a financial contribution from the European Union's Seventh Framework Programme (FP7/2007-2013) and EFPIA companies' in kind contribution. www.imi.europa.eu



The EBiSC Cell line catalogue lists all EBiSC cell lines available for purchase. The lines are displayed in a table that presents a general overview of the collection and supports sorting by different parameters such as name, depositor, disease and cell type).

Accessing the Catalogue

You can access the catalogue via the main EBiSC website (<u>http://ebisc.org/</u>) or directly (<u>https://cells.ebisc.org/</u>).



BIONi010-C

EDi001-A

EDi002-A

normal

normal

Parkinson's disease

fibroblast of dermis

fibroblast of dermis

fibroblast of dermis

Bioneer

University of Edinburgh

University of Edinburgh

male

female

female



About the Catalogue

The front page displays the current status of the catalogue and includes all lines that are available for purchase. They are displayed in a searchable table that provides cell line summary information: the disease state, primary cell type, donor sex and depositing organisation. The name column links to a separate individual page for each cell line.

EBIS	C Cell Line Catalogue For customers For	depositors About EBISC	l i	Number of available cell lines n the catalogue
iPSC Search cell li Disease	Ines	Summary table with sortable columns		172 cell lines
Name 🔻	Disease	Primary cell type	Donor sex	Depositor
BIONi010-A	normal	fibroblast of dermis	male	Bioneer
BIONi010-B	normal	fibroblast of dermis	male	Bioneer
BIONi010-C	normal	fibroblast of dermis	male	Bioneer
EDi001-A	Parkinson's disease	fibroblast of dermis	female	University of Edinburgh
EDi002-A	normal	fibroblast of dermis	female	University of Edinburgh
RBi001-A	normal	fibroblast of dermis	male	R Biomedical
RCi001-A	Erything	erythroblast	male	Pfizer Limited - Pfizer
RCi001-B	E Links to cell line	erythroblast	male	Pfizer Limited - Pfizer
RCi002-A	_E , pages	erythroblast	female	Pfizer Limited - Pfizer
RCi002-B	Erythromelalgia	erythroblast	female	Pfizer Limited - Pfizer
RCi003-A	Pain agnosia	erythroblast	female	Pfizer Limited - Pfizer
RCi003-B	Pain agnosia	erythroblast	female	Pfizer Limited - Pfizer
RCi004-A	Huntington disease	fibroblast of dermis	female	Roslin Cells Ltd.
RCi004-B	Huntington disease	fibroblast of dermis	female	Roslin Cells Ltd.
RCi006-A	Facioscapulohumeral dystrophy	fibroblast	male	Roslin Cells Ltd.
RCi009-A	facioscapulohumeral muscular dystrophy	fibroblast	female	Roslin Cells Ltd.
SIGi001-A-1	normal	epithelium	female	Sigma-Aldrich
SIGi001-A-3	normal	epithelium	female	Sigma-Aldrich



Search and filtering

You can use keyword search and faceted filtering to narrow the number of displayed cell lines from the catalogue.

Filter Search

You can use multiple filters and values within filters when looking for suitable cell lines.

BIS	C Cell Line Catalog	ue For customers For depositors Ab	Search box	t match ected criteria
F301		Jue		O cell line
Search cell li	nes			
Disease Prolonged QT	Primary ce T interval	ell type 🔹 Donor sex	Depositor Oclear all	filters Filters
normal Name ▼	Selected items	cell type	Bioneer (3) Klinikum der Universität zu Köln (6) R Biomedical (1) Sigma-Aldrich (8)	
UKKi006-A	normal	mesenchymal stem cell of the bone marrow	Universitätsklinikum Bonn (4)	Iniversität zu Köln
UKKi008-A	Prolonged QT interval	fibroblast of dermis	University of Edinburgh (1)	niversität zu Köln
UKKi009-A	Prolonged QT interval	fibroblast of dermis	Wellcome Trust Sanger	
UKKi009-B	Prolonged QT interval	fibroblast of dermis	Select on	e or more
UKKi011-A	normal	fibroblast of dermis	male Items from	
UKKi012-A	normal	fibroblast of dermis	male Klinikum der U	niversität zu Köln
ne EBiSC – Euro ipport from the 5582, resources nion's Seventh F ontribution, www	opean Bank for induced pluripote Innovative Medicines Initiative Jc of which are composed of finan- Framework Programme (FP7/200 w.imi.europa.eu	nt Stem Cells project has received int Undertaking under grant agreement n° cial contribution from the European 7-2013) and EFPIA companies' in kind	efpina La construction de Parasenter La construction de Parasenter	

Currently available filters are: Disease, Primary Cell type, Donor sex and Depositing organisation. The numbers next to items inside filters display how many lines in the catalogue match the selection criteria. Each time you select values for a filter they appear below the filter box. The selection items in all other filters are refreshed according to your current selection and availability in the catalogue.

You can remove selected filter items by clicking on the x icon in front of each item. Or you can click on "Clear all filters" to remove all selected items.



Keyword search

The search box above the filters enables broader searching. You can find lines based on other descriptive information associated with them, beyond what is displayed in the summary table.

The number of found / available cell lines that match your selected criteria always appears in the upper right hand side of the page.

Example search

Anne is looking for lines associated with heart conduction disease and lines with mutations in RYR2.

First, Anne looks at the disease dropdown filter. She sees heart conduction disease and that there are five lines associated with that disease available in the EBiSC catalogue. Anne clicks on the heart conduction check box and this filters the results in the summary table to five lines that are associated with this disease.

EBISC	Cell Line Catalogue For cust	omers For depositors About E	BiSC	Log in
iPSC line of	catalogue			83 cell lines
Search cell lines				
Disease	Primary cel Heal	rt conduction	Depositor	•
Machado-Joseph disease	e (2) dise	ase	Donor sex	Depositor
Parkinson's disease (1)		fibroblast of dermis	Not known	Bioneer
erythromelalgia (4)	(3) gia	erythroblast	male	Pfizer Limited - Pfizer
heart conduction disease	(5) jia	erythroblast	female	Pfizer Limited - Pfizer
normal (60)	ral dementia	fibroblast of dermis	male	University College London
pain agnosia (2)	al dementia	fibroblast of dermis	male	University College London
	ormai	fibroblast of dermis	male	Universitätsklinikum Bonn
UKBi008-A M	lachado-Joseph disease	fibroblast of dermis	male	Universitätsklinikum Bonn
UKKi008-A he	eart conduction disease	fibroblast of dermis	male	Klinikum der Universität zu Köln
UNEWi001-A re	etinitis pigmentosa	fibroblast of dermis	female	University of Newcastle
WTSIi003-A no	ormal	fibroblast of dermis	female	Wellcome Trust Sanger Institute
WTSIi008-A no	ormal	fibroblast of dermis	male	Wellcome Trust Sanger Institute

Anne is particularly interested in mutations in the RYR2 gene. The information is not visible in the summary table, so Anne decides to use the search box and types RYR2. The table is further filtered to lines that have this gene name in their description.



EBISC	Search ^{re For custome}	ars For depositors About EBiS(Log in
iPSC lir	catalogue				2 cell lines
nyr2 Disease	Link to cell line pa	ge ex v	epositor		
Name	Jisease	Primary cell type	Donor sex	Depositor	
UKKi007-A	heart conduction disease	fibroblast of dermis	female	Klinikum der Universität zu Köln	
UKKi007-B	heart conduction disease	fibroblast of dermis	female	Klinikum der Universität zu Köln	

There are two lines with the RYR2 gene in their description. These are actually two different cell lines from the same donor. This can been seen from the cell line name, both lines have the stem UKKi007 following by a different letter, A and B.

After finding lines of interest, Anne can now view detailed information on each cell line by clicking on their names.

Cell line page

Each cell line page displays:

- General information about a cell line, including donor and disease information, depositor and reference publications
- Link to the ECACC catalogue where you can purchase the cell line
- Link to the Cell line information pack
- Images of the cell line if available







Further down the page you can find additional information about the cell line and how it was created. The depositor provided this information when registering the line in <u>hPSCreg</u> (http://hpscreg.eu).

This information is displayed in a single box with four tabs: derivation, culture conditions, characterisation and genotyping.

The derivation tab displays details of how the line was reprogrammed and when the source tissue was collected.

Derivation	Culture conditions	Characterization	Genotyping	1	Menu Tabs	
Derivat	tion					
	Primary cell t	ype: fibroblast of d	ermis			
Primar	y cell developmental st	age: adult				
	Location of primary tig	ssue Bad Oeynhaus	sen, Germany			
	Tissue collection of	date: June 2, 2009				
Passa	age number reprogramr	med: P3				
	Reprogramming met	hod				
	Vector t	ype: Integrating				
	Ve	ctor: Transposon				
	Transpo	son: Sleeping beau	ity			
ls	the used vector excisal	ole?: yes				
	Deriva	tion				
	Xeno free conditi	ons: no				
	Derived under g	mp: no				
	Available as clinical gr	ade: no				

The culture conditions tab gives information about how the cell line has been cultured.

erivation Culture co	nditions Characterization	Genotyping
Culture Condi	tions	
	Medium: Es	sential E8
	Passage method: ED	JTA
	Matrix: Vit	ronectin
	CO2 concentration: 5%	6
	O2 concentration: 21	%
	Tarran avaturas 07	



The characterization tab gives details of what sterility, morphology and marker screening has been carried out on a particular cell line.

Derivation Culture conditions Characteriza	ation Genotyping
Characterization	
Characterization	
Microbiology / Virology Screening	F HIV 1: Negative
	HIV 2: Not done
	Hepatitis B: Negative
	Mycoolasma: Negative
	ny september new regentie
Undifferentiated cells	\$
Morphology and Marker expression	: Immune/Markerstaining Passage number: 29
	alal: nd Marker
	nanog: + staining results
	pou5f1: +
	ssea3: nd
	ssea4: +
	tra160: nd
	zfp42: nd
	FACS
	Passage number: 33
	TRA 1-80: +
	alpl: nd FACs results
	nanog: nd
	pou5f1: nd
	ssea3: nd
	tra160: nd
	image
	Morphology
	Passage number: - Description: brightfield image of NP0011-19 iPSC colonies, day 2 post-thaw, 10x objective
	File: Image
Oto dia	
Sterility	/
inoculation for microbiological growth	No Contaminants Detected Sterning
Viability	/: Viable post-cryopreservation
viability	



The genotyping tab contains information about any karyotyping and genotyping that has been conducted on the line.

Derivation	Culture conditions	Characterization	Genotyping
Genot	ning		
Genery	ping		
		Karyotyping	
	Pas	sage number: 31	
	Cell I	ine karyotype: 46,>	XX
	Karyot	yping method: SNF	P-genotyping using HumanOmniExpressExome-8 BeadChip v1.2 (Illumina)
		0	
		Genotyping	

CLIP – Cell line Information Pack

EBISC	Cell Line Catalogue For customers For d	epositors About EBiSC	Log in
UKKi009-	В		
Disease status	Prolonged OT interval		🐙 Purchase cell line
Disease associated phenotypes:	prolonged QT interval on ECG	Cell Line	At European Collection of Authenticated Cell Cultures (ECACC)
Family history:	Not known	Information Pack	In stock
Medical history:	Yes		
Clinical information:	Yes		Cell Line Information Pack
Affected status:	affected		

The Cell Line Information Pack contains additional information about each cell line, including any associated third party obligations or license provisions. You can find the link to the Cell Line Information Pack at the top right side of the page.



•••	LIKKi009-B CLIP v1 pdf	-									
🗲 🛈 🔒 htt	ps://cells.ebisc.org/media/cellline	s/2016/03/23/e	C Q Search		☆ 自	♥ ↓	^	40	9	ABP -	=
	♣ Page: 1 of 8	- 1	+ Automatic Zoo	m ¢				8 8	Đ	_	»
											8
	Cell Line Informa	ation Pack (C	CLIP)				•	;			
	Cell line name	UKKi009-B					FR	ĩ٢	(
	ECACC Catalogue No.:	66540032					uropean Bank for	induced pluripot	tent Stem Cells		
	Purpose										
	The purpose of this Cell Lin users of the cell line, and t	e Information Pack o confirm that a Use	(CLIP) is to commun er has received it up	icate cell lir on the pure	ne specific chase of ar	informat EBiSC c	tion to po ell line.	otential			
	Information										
	The CLIP may provide a var are Third Party Obligations cell line. TPOs may impose to be taken before it can b	iety of types of infor (TPOs), which are e ethical or legal limi e used. TPOs are lik	rmation related to a ethical or legal oblig tations on the abilit cely to be:	n individual ations of a I y of a User t	l cell line. (Depositor i to use the c	Of partic related t cell line,	ular impo o the use or requir	ortance e of the re steps			
	Obligations under	license to an intelle	ectual property right	ts (patent) l	holder, or						
	Restrictions on us	e imposed by the do	onor of the primary	tissue from	which the	cell line	was ma	de.			
	Third Party Obligatio	ns: donor conse	ent provisions								
	None										
	Third Party Obligatio All deposited cell lines patented by iPSC Acade iPSC Academia Japan to	ns: IP or license were generated by mia Japan. There obtain a licence t	e provisions reprogramming v may be a legal obl o use the cell lines	vith Yama ligation on s, for exam	naka facto users of t ple for th	ors (OSI he cell l eir com	KM), w ines to o mercial	hich is contact use.			
	In addition, cell lines U encoding for the hyperac which is patented by The (Prof. Dr. Zsuzsanna Izs prior written consent of The MTA between UKK	KKi-008-A, UKH tive variant of the t Max-Delbrück-Co svak). The comme MDC and be subject and MDC for tra	Ki009-A and UKI transposase "Sleep enter (MDC) for M ercial use of cells eet to obtaining a c nsposon plasmid S	Ki009-B w bing Beauty folecular M generated commercia SB100x is	vere gener y", inter al Medicine I with this I license f shown be	rated us ia the va Berlin-B materia rom MI	ing a p ariant SI such, Ge al may 1 DC.	lasmid 3100x, rmany require			

Cell Line Information Pack PDF

Cell line purchase

If you decide to purchase any of the lines in the EBiSC catalogue, you can do so by clicking on the "Purchase cell line" button on the right side of the page. This will lead you to the European Collection of Authenticated Cell Cultures (ECACC) website where you can buy the chosen line.



Disease status

Diagnosed disease: Disease stage: Disease associated phenotypes: heart conduction disease Symptomatic prolonged QT interval on ECG



For details on how to complete your purchase please visit the comprehensive ECACC guide on how to order cell lines (http://www.phe-culturecollections.org.uk/orderinginfo/index.aspx).