## **Primary Cells**

1: Required 2: Required if available 3: Optional

Comment	LINCS Field Name	Related to	Description	Comments	Importance	Centers Provide
Part	PC_Name	canonical	The name for the primary cells as chosen by LINCS		1	YES
Companism	PC_LINCS_ID	canonical	Unique LINCS internal identifier	LINCS internal ID; this is a batch independent ID; canonical primary cell ID	1	-
Companies   Comp	PC_Alternative_Name	canonical	Other relevant names	synonymous or alternative names; but only significant difference	2	-
Page	PC_Alternative_ID	canonical	Other relevant IDs for cells	CLO or other synonymous IDs	2	-
P. Classe	PC_Organism	canonical	Organism of origin; a controlled vocabulary describing the organism from which the primary cell was derived (e.g.	-	1	-
Content   Cont	PC_Organ	canonical			1	-
Accordance   County	PC_Tissue	canonical		Some histology information might be provided in this field.	1	YES
	PC_Cell_Type	canonical	A controlled vocabulary describing the cell type from which a primary cell was derived; e.g. epithelial like, fibroblast- like, lymphoblast like, hematopoetic, mesenchymal, neural, etc. This provides information about cell morphology.	controlled terminology from CL	1	-
P. C. Dossor, Age  C. Dossor, Dags  C. D	PC_Cell_Type_Detail	canonical	Additional description of cell type (histology) that is not available in CL, but may be known from other sources like	terms from other sources like ATCC; will develop over time	2	-
The Control Age Control Editionary Control Editiona	PC_Donor_Sex	canonical	Describes sex of the organism from which the cell was obtained;	controlled terms to describe genders and also chromosomal abnormalities	2	YES
PC Donor, Eliminity according to cancer and Controlled vacable by a cancer and Controlled by a cancer and Controlled vacable by a cancer and Controlled vaca	PC_Gonosome_Code	canonical	List of the sex chomosomes (gonosome) of the sample e.g. XX, XY, XXY		3	-
Converting Status accounts Controlled vocability describing the heath status of the donor vocability describing the heath status of the donor vocability described by a controlled controlled of the privary cell came from a performant diseased tissue, the disease status of the donor in the privary cell came from a performant diseased tissue, the disease status of the donor in the privary cell came from a performant diseased tissue, the disease status of the donor in the privary cell came from a performant diseased tissue, the disease central privary cell came from a performant diseased tissue in the first privary cell came from a performant diseased tissue in the first privary cell cell time of Organ Information (1994). The privary cell came from the controlled private in a performant diseased tissue in the privary cell cell time of Organ Information (1994). The privary cell cell time of Organ Information (1994) and private and multiple cell time of Organ Information (1994). The privary cell cell time of Organ Information (1994) and private cell time of Organ Information (1994). The private cell time of Organ Information (1994) and private cell time of Organ Information (1994). The private cell time of Organ Information (1994) and private cell time of Organ Information (1994). The private cell time of Organ Information (1994) and private cell time of Organ Information (1994). The private cell cell time of Organ Information (1994) and private cell cell time of Organ Information (1994). The private cell cell time of Organ Information (1994) and private cell cell time of Organ Information (1994). The private cell cell cell cell cell cell cell ce	PC_Donor_Age	canonical	The age of the donor	numeric number; donor age in years	2	YES
P. C. Disease Detail  Convoiced Conductable Control of the Present Assistant of the door of the Present Assistant of the Control of the Control of the Present Assistant of the Control of the Present Assistant of the Control of the Present Assistant of the Control of the Cont	PC_Donor_Ethnicity	canonical	For human cells, the ethnicity of the donor		2	YES
Procession   Committed   Com	PC_Donor_Health_Status	canonical	Controlled vocabulary describing the health status of the donor	need to be defined in more detail; need level of detail required	2	YES
PC_Disease_Detail Concreal Step of disease creater in primary cell donor to the cell the that may not be available in the disease centalogy above from feditional facility or the control of the cell the that may not be available in the disease centalogy above from feditional facility or the cental flower of disease creater in primary cell donor (in years)  PC_Disease_Detail Concreal Age of dease of disease creater in primary cell donor (in years)  PC_Disease_Duration Concreal	PC Disease	canonical	If the primary cell came from a particular diseased tissue, the disease should be noted in terms of a controlled	the disease hierarchy is captured in the ontology; i.e. DOID	1	YES
PC_Disease_Age_Doset Genorical Age of delates creek in primary cell donor (in years) PC_Disease_Age_Doset Genory Disease_Duraction Genorical Age of delates creek in primary cell donor (in years) Primary Cell / Cell Line of Origin information Primary Cell Cell Line of	PC Disease Detail	canonical			2	-
PC_Disease_Age_Onset consortical Age of disease streats in primary cell donor (in years) PC_Donor_Age_Death Consortical consor					2	YES
Personal Control of Co				, ,		
Descriptions of the properties					2	
No. Ministation Citations cannotical Some mutation in primary cell from a reference, needs to include the reference source and the reference to cell line inference to cell line infere	PC_Donor_Disease_Duration			1 1		
Sequence (another in the primary cell (e.g. ER Status, Luminal Cells)  P. C. Genetic Modification  C. Conocial Status Interaction or any other genetic modifications (de novo mutations, translocations) that were accurried. Type, the modification or any other genetic modifications (de novo mutations, translocations) that were accurried. Type, the modification or any other genetic modifications (de novo mutations, translocations) that were accurried. Type, the modification or any other genetic modifications (de novo mutations, translocations) that were accurried. Type, the modification or any other genetic modifications (de novo mutations, translocations) that were accurried. Type, the modification of each provised of the status of the primary cell (e.g. adherent, suspension)  P. C. Cell, Markers  C. canonical Connotical MacConnotical Controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  P. C. Recommended_Culture_Conditions  C. canonical Connotical MacConnotical Controlled of the status tissue culture conditions would notice influentiation would notice influe	PC_Known_Mutations	canonical	Known mutation in primary cell captured explicitly; e.g. if reference is not available	Needs some ontology to describe gene / protein and mutation	2	-
PC_Genetic_Modification  another an another interest of the primary cell. Personal process and process	PC_Mutation_Citations	canonical		reference to cell line inherent mutations	2	-
acquired. If yes, the modifications (e.g. expressing GFP-tagged proben) should be described and appropriate references provided.  A controlled vocabulary describing the markers used to isolated //dentify the cell type  Cell forwith Properties  Canonical  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell secretion of culture dish treatment conditions are required to good the cells, these canonical of the primary cell share been establied / user are required to good the cells, these canonical of the primary cell share been establied / user are required to good the cells, these canonical canonical canonical establishment of the primary cell share been establied / user are required to good the cells, these canonical canonical canonical establishment of the primary cell is the water to establish and canonical establishment of the primary cell is canonical establishment o	PC_Molecular_Features	canonical		-	3	-
A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)  A controlled vocabulary describing the growth properties of the primary cell such that the primary cell such activation and properties of the primary cell properties of the primary cell such activation and properties of the primary cell passed on provider information, if available from cell provider / reference  C center, Specific ID  batch  Datch  Name of vendor or lab (provider) that supplied the primary cell  Datch  Vendor(s) or provider  Vendor(s) or provider  Primary cell provider is between the primary cell provider is the primary cell by the vendor or provider  Poc. Provider_ Batch_ID  batch  Vendor(s) or provider is the same either by STR / SNP profiling or by actually exchanging vials previously marked to repository  Vendor(s) or provider with bed described by LINCS participants and a controlled vocabulary will be developed. Comment: We should all least make an effort to ensure cells within LINCS are the same either by STR / SNP profiling or by actually exchanging vials previously marked to repository  Vendor(s) or provider is low or vendor or by STR / SNP profiling	PC_Genetic_Modification	canonical	acquired. If yes, the modifications (e.g. expressing GFP-tagged protein) should be described and appropriate		1	YES
A description of the standard issue culture conditions (midelling and primary cell loser) from the standard issue culture conditions (midelling) and the standard colliuring conditions are captured to grow the cells, these should also be mentioned and details provided.  CPC_Related_Projects  Canonical Commended_Culture Conditions  Canonical Commended_Culture Conditions  CPC_Related_Projects  Canonical Commended_Culture Conditions  Canonical Commended_Culture Conditions  Canonical Commended_Culture Conditions  Canonical Commended_Culture Conditions  CPC_Related_Projects  Canonical Commended_Culture Conditions  CPC_Content_Pace Conditions  CPC_Content_Pace Conditions  CPC_Content_Pace Conditions  CPC_Content_Pace Content_Conditions  CPC_Content_Pace Content_Conditions  CPC_Content_Pace Content_Conditions  CPC_Content_Conditions  CPC_Cont	PC_Cell_Markers	canonical	A controlled vocabulary describing the markers used to isolate / identify the cell type	controlled terms of markers; at this point no reference	2	YES
the primary cell. Description of culture dish treatment conditions would include information about coating of culture desired information about coating of culture desired in whith throughout, coalege, etc., prot to cell plaint, is dish with this or cells have been studied?  PC_Related_Projects  Canonical canonical canonical canonical canonical canonical canonical expected STR (reference) profile of the cells have been used (e.g., ENCODE, TCGA, ICBR, Epigenomics, etc.)  PC_Verification_Reference_Profile  canonical canonical canonical canonical canonical expected STR (reference) profile of the cells bave been used (e.g., ENCODE, TCGA, ICBR, Epigenomics, etc.)  PC_Relevant_Citations  canonical List of references (with PMIDs) of relevance to cell isolation, etc.  Canonical List of references (with PMIDs) of relevance to cell isolation, etc.  Canonical List of references (with PMIDs) of relevance to cell isolation, etc.  Canonical List of references (with PMIDs) of relevance to cell isolation, etc.  Canonical List of references (with PMIDs) of relevance to cell isolation, etc.  Canonical List of references (with PMIDs) of relevance to cell isolation, etc.  Canonical List of references (with PMIDs) of relevance to cell isolation, etc.  Canonical List of references (with PMIDs) of relevance to cell isolation, etc.  Canonical List of references (with PMIDs) of relevance to cell isolation, etc.  Canonical List of references (with PMIDs) of relevance to cell isolation, etc.  1 YES  PC_Center_Specific_ID  batch LinCS center-specific cell ID; batch specific ID  batch LinCS center-specific cell ID; batch specific ID  batch Vendor/Provider Batch ID number; Batch or lot number assigned to the primary cell by the vendor or provider  PC_Quality_Verification  batch Vendor/Provider Batch ID number; Batch or lot number assigned to the primary cell identity; batch-specific ID; STR profile LinCS are the same either by STR / SNP profiling or by actually exchanging vials previously machine to resource cells within LinCS are the same e	PC_Growth_Properties	canonical	A controlled vocabulary describing the growth properties of the primary cell (e.g. adherent, suspension)	-	1	-
scale projects in which the cells have been used (e.g. ENCODE, TOGA, ICBP, Epigenomics, etc.)  Need some detrined project code  Comment of the cell project in which the cells have been used (e.g. ENCODE, TOGA, ICBP, Epigenomics, etc.)  Need some detrined project code  from cell provider / reference  canonical comment of the cell based on provider information, if available  canonical List of references (with PMIDs) of relevance to cell isolation, etc.  2  Comment of the cell provider / reference  canonical List of references (with PMIDs) of relevance to cell isolation, etc.  2  Comment of LinCS center using the primary cells  batch LinCS center using the primary cells  LinCS center specific ID  batch LinCS center specific Cell ID; batch specific ID  comment of the cell provider of the primary cell by the vendor or provider  Comment of the cell provider or provider  Comment of the cell provider or provider or provider  Comment of the cell provider state in the primary cell by the vendor or provider  Provider_Catalog_ID  batch Vendor/Provider Batch ID number, Batch or lot number assigned to the primary cell by the vendor or provider  Comment of the cell provider state in the primary cell identity; batch-specific ID; STR profile  Information pertaining to experimental verification of the primary cell identity; batch-specific ID; STR profile  LinCS are the same either by STR / SNP profiling or by actually exchanging vials previously marked to repository  Coulture_Conditions  batch Adescription of the culture conditions that were used and are suitable for this type of cell  The number of times, if any the primary cells have been re-plated and allowed to grow back to confluency or to some marked to repository  The number of times, if any the primary cells have been re-plated and allowed to grow back to confluency or to some marked to repository  The number of times, if any the primary cells have been re-plated and allowed to grow back to confluency or to some marked.	PC_Recommended_Culture_Conditions	canonical	the primary cell. Description of culture dish treatment conditions would include information about coating of culture dish with fibronectin, collagen, etc. prior to cell plating. If special culture vessels are required to grow the cells, these should also be mentioned and details provided.	Recommended standard culturing conditions go here; not a required field; the actual culture conditions are captured as experimental conditions; see EXP_PC:2	2	-
PC_Relevant_Citations canonical List of references (with PMIDs) of relevance to cell isolation, etc.  2	PC_Related_Projects	canonical		Need some defined project code	2	-
C_Center_Name batch LINCS center using the primary cells	PC_Verification_Reference_Profile	canonical	expected STR (reference) profile of the cell based on provider information, if available	from cell provider / reference	2	-
PC_Center_Specific_ID batch Name of vendor or lab (provider) that supplied the primary cell Vendor(s) or provider Vendor(s) or provider Primary cell provider's IDS  1 YES PC_Provider_Catalog_ID batch ID or catalogue number or name assigned to the primary cell by the vendor or provider PC_Provider_Batch_ID batch Vendor/Provider_Batch ID number; Batch or lot number assigned to the primary cell by the vendor or provider PC_Quality_Verification batch Information pertaining to experimental verification of the primary cell identity; batch-specific ID; STR profile Information pertaining to experimental verification of the culture conditions that were used and are suitable for this type of cell PC_Passage_Number  batch The number of times, if any the primary cells have been re-plated and allowed to grow back to confluency or to some maximum density; if using suspension cultures.	PC_Relevant_Citations	canonical	List of references (with PMIDs) of relevance to cell isolation, etc.	-	2	-
PC_Provider_Name batch Name of vendor or lab (provider) that supplied the primary cell Vendor(s) or provider Primary cell provider's IDS 1 YES  PC_Provider_Catalog_ID batch ID or catalogue number or name assigned to the primary cell by the vendor or provider Primary cell provider's IDS 1 YES  PC_Provider_Batch_ID batch Vendor/Provider Batch ID number; Batch or lot number assigned to the primary cell by the vendor or provider Acceptable protocols for verification will be determined by LINCS participants and a controlled vocabulary will be developed. Comment: We should at least make an effort to ensure cells within LINCS are the same either by STR / SNP profiling or by actually exchanging vials previously matched to repository  PC_Culture_Conditions batch Adescription of the culture conditions that were used and are suitable for this type of cell 5 YES  PC_Passage_Number batch The number of times, if any the primary cells have been re-plated and allowed to grow back to confluency or to some maximum density if using suspension cultures.	PC_Center_Name	batch	LINCS center using the primary cells	·	1	YES
PC_Provider_Catalog_ID  batch  D or catalogue number or name assigned to the primary cell by the vendor or provider  Primary cell provider's IDs  1 YES  PC_Provider_Batch_ID  batch  Vendor/Provider Batch ID number; Batch or lot number assigned to the primary cell by the vendor or provider  Lincs are the same either by STR / SNP profiling or by actually exchanging vials previously matched to repository  DC_Passage_Number  batch  D or catalogue number or name assigned to the primary cell by the vendor or provider  Acceptable protocols for verification will be determined by LINCS participants and a controlled vocabulary will be developed. Comment: We should at least make an effort to ensure cells within LINCS are the same either by STR / SNP profiling or by actually exchanging vials previously matched to repository  C_Culture_Conditions  batch  The number of times, if any the primary cells have been re-plated and allowed to grow back to confluency or to some maximum density if using suspension cultures.  1 YES	PC_Center_Specific_ID	batch	LINCS center-specific cell ID; batch specific ID	·	1	YES
PC_Provider_Batch_ID batch Vendor/Provider Batch ID number; Batch or lot number assigned to the primary cell by the vendor or provider  Acceptable protocols for verification will be determined by LINCS participants and a controlled vocabulary will be developed. Comment: We should at least make an effort to ensure cells within LINCS are the same either by STR / SNP profiling or by actually exchanging vials previously matched to repository  PC_Culture_Conditions  batch Adescription of the culture conditions that were used and are suitable for this type of cell  The number of times; if any the primary cells have been re-plated and allowed to grow back to confluency or to some maximum density; if using suspension cultures.	PC_Provider_Name	batch	Name of vendor or lab (provider) that supplied the primary cell	Vendor(s) or provider	1	YES
PC_Quality_Verification  batch Information pertaining to experimental verification of the primary cell identity; batch-specific ID; STR profile under the primary cell identity; batch-specific ID; STR profile under the primary cell identity; batch-specific ID; STR profile under the primary cell identity; batch-specific ID; STR profile under the primary cell identity; batch-specific ID; STR profile under the primary cell identity; batch-specific ID; STR profile under the primary profile under the primary cell identity; batch-specific ID; STR profile under the primary profile under the profile under	PC_Provider_Catalog_ID	batch	ID or catalogue number or name assigned to the primary cell by the vendor or provider	Primary cell provider's IDs	1	YES
PC_Quality_Verification batch Information pertaining to experimental verification of the primary cell identity; batch-specific ID; STR profile LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ensure cells within LINCS are the same developed. Comment: We should at least make an effort to ens	PC_Provider_Batch_ID	batch	Vendor/Provider Batch ID number; Batch or lot number assigned to the primary cell by the vendor or provider	·	1	YES
PC_Passage_Number batch The number of times, if any the primary cells have been re-plated and allowed to grow back to confluency or to some aximum density if using suspension cultures.	PC_Quality_Verification	batch	Information pertaining to experimental verification of the primary cell identity; batch-specific ID; STR profile	vocabulary will be developed. Comment: We should at least make an effort to ensure cells within LINCS are the same either by STR / SNP profiling or by actually exchanging vials previously	2	-
naximum density if using suspension cultures.	PC_Culture_Conditions	batch		-	2	YES
PC_Transient_Modification batch Transient transfection or viral transduction Need to capture transfection agent 2 YES	PC_Passage_Number	batch		-	1	YES
	PC_Transient_Modification	batch	Transient transfection or viral transduction	Need to capture transfection agent	2	YES