iPSCs

Importance
1: Required
2: Required if available
3: Optional

LINCS Field Name	Related to	Description	Comments	Importance	Centers Provide
IP_Name	canonical	The name of the iPSCs	-	1	YES
IP_LINCS_ID	canonical	Unique LINCS internal identifier	LINCS internal ID; this is a batch independent ID; canonical iPSC ID	1	-
IP_Primary_Cell_Name	canonical	The Name of the Primary Cell / Cell Line of origin which was dedifferentiated	-	1	YES
IP_Primary_Cell_LINCS_ID	canonical	LINCS ID of the primary cell / cell line from which the iPSC was derived / dedifferentiated	-	1	YES
IP_Known_Mutations	canonical	Mutations inherent in cell, captured explicitly; e.g. if reference is not available	Needs some ontology to describe gene / protein and mutation; at this point we suggest a concatenation of UniProt / Gene symbol and code of mutation	2	-
IP_Mutation_Citations	canonical	Mutations inherent in the cells; from a reference	Known mutation in cells from a reference; needs to include the reference source and the reference to the specific cell	2	-
IP_Reprogramming_Method	canonical	Reprogramming method	-	1	YES
IP_Culture_Conditions	batch	A description of the culture conditions that were used to maintain the cells and are suitable for this type of cell	-	1	YES
IP_Passaging_Method	canonical	The passaging method that was used for the iPSCs	-	2	-
IP_Passage_Number	canonical	The number of times that the iPSCs had been passaged	-	2	-
IP_Passage_Last_Karyotyping	canonical	The passage number since the last karyotyping	-	1	YES
IP_Recommended_Culture_Conditions	canonical	The culture conditions that are recommended by the vendor when handling the iPSCs	-	2	-
IP_Relevant_Citations	canonical	List of references (with PMIDs) of relevance to cell isolation, etc.	-	2	-
IP_Center_Name	batch	LINCS center using the cell	-	1	YES
IP_Center_Specific_ID	batch	LINCS Center-specific cell ID; batch specific ID	-	1	YES
IP_Provider_Name	batch	Name of vendor or lab (provider) that supplied the iPSC	-	1	YES
IP_Provider_Catalog_ID	batch	ID or catalogue number assigned to the iPSC by the vendor or provider	-	1	YES
IP_Provider_Batch_ID	batch	Vendor/Provider Batch ID number; Batch or lot number assigned to the cell by the vendor or provider	provided by the cell provider	1	YES
IP_Center_Specific_Code	batch	LINCS center-specific coded information that can include in its format information regarding the parent / protocol used / date	e.g. CS00iCTR-n2_iPS	3	YES
IP_Quality_Verification	batch	Information pertaining to experimental verification of the primary cell identity; batch-specific ID; STR profile	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	2	-
IP_Alternative_Name	canonical	Other relevant names	synonymous or alternative names; but only significant difference	2	-
IP_Alternative_ID	canonical	Other relevant IDs for cells	CLO or other synonymous IDs	2	-
IP_Molecular_Features	canonical	Relevant molecular and morphological features of the iPSCs. (e.g. ER Status)	-	3	-
IP_Related_Projects	canonical	Other projects in which the iPSCs have been studied / used; A controlled vocabulary describing other large scale projects in which the cells have been used (e.g. ENCODE, TCGA, ICBP, Epigenomics, etc.)	Need some defined project code	2	-
IP_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	1	-
IP_Transient_Modification	batch	Transient transfection or viral transduction	Need to capture transfection agent	2	-
IP_Genetic_Modification	canonical	Stable transfection, viral transduction or any other genetic modifications (de novo mutations, translocations) that were acquired. If yes, the modifications (e.g. expressing GFP-tagged protein) should be described and appropriate references provided.	MIACA is minimal information that may be a guidance	2	YES