RNAi

Importance
1 Required
2 Required i available
3 Optional

LINCS Field Name	Related to	Description	Comments	Importance	Centers Provide
RN Name	canonical	The primary name of the siRNA or shRNA as chosen by LINCS	Should be descriptive and correspond to existing siRNA or shRNA names as much as possible; batch independent name	1	YES
RN LINCS ID	canonical	Unique LINCS internal identifier	LINCS internal ID; this is a batch independent ID; canonical siRNA or shRNA ID	1	-
RN Probe ID	canonical	ID of the siRNA or shRNA as listed in NCBI Probe database	-	2	YES
RN Probe Title	canonical	Name of the siRNA or shRNA as listed in NCBI Probe database	-	2	YES
RN Probe Type	canonical	A controlled vocabulary specifying whether the probe is an siRNA , esiRNA, or shRNA	-	1	YES
RN shRNA Construct	canonical	A description of the RNA construct includes the name of vector, the gene that is targeted by the siRNA/shRNA, gene ID, regulatory region, selectable marker.	for shRNA only	2	YES
RN shRNA Vector Reference	canonical	Reference to publication or contact information (if applicable)	for shRNA only	2	-
RN Target Gene Symbol	canonical	The NCBI Entrez Gene Symbol for the gene targeted by the siRNA or shRNA	It might be desirable to request the sequence of the target mRNA, especially if a particular splice variant is targeted. Also, it should be noted whether the target sequence lies in the coding region or UTR of the mRNA.	1	YES
RN Target Gene ID	canonical	The NCBI Entrez Gene ID for the gene targeted by the siRNA or shRNA	-	1	-
RN RNAi Sense Sequence	canonical	The nucleotide sequence of the sense (passenger) strand of the siRNA or the processed shRNA.	Note that several vendors do not make their siRNA sequences public. Thus, it might be impossible to require exact sequence information for all siRNAs. These vendors will submit context sequences to NCBI Probe db though, so one would always have Probe IDs.	2	-
RN Validation Information	canonical	Information about experimental verification of siRNA/shRNA activity. A reference (PubMed or other suitable reference) should be provided.	Information about the cell line/cell type and organism used for validation, as well as the % reduction in protein expression and mRNA observed in the validation experiments; whether the target monitored in validation studies was the endogenous mRNA or a transfected mRNA. It would be useful information even if only a code is given that states whether an RNAi reagent was validated or not by LINCS effort or by others.	2	-
RN Provider Name	batch	Vendor or lab that supplied the reagent	-	1	YES
RN Provider Catalog ID	batch	ID or catalogue number assigned to the reagent by the vendor or provider	-	1	YES
RN Provider Batch ID	batch	Batch or lot number assigned to the reagent by the vendor or provider	-	1	YES
RN Silencing Reagents	experiment	Number of combined silencing RNA reagents per well	From MIARE	1	-
RN Delivery Type	experiment	Describe type of delivery, e.g. reverse transfection, infection, electroporation, intravenous injection, shooting, feeding	From MIARE	1	-
RN Delivery Reagent	experiment	Delivery reagent description, including, type, name, catalog number, manufacturer, and final concentration	From MIARE	2	-
RN Concentration Of Silencing Reagent	experiment	The final concentration of the silencing reagents	From MIARE	2	-
RN Cell Number	experiment	Number of cells per well in the delivery plate	From MIARE	1	-
RN Assay Conditions	experiment	Time to assay point from delivery of silencing RNA reagent; time of exposure of silencing RNA reagent; media changes	From MIARE	2	-
RN Number Of Replicates	experiment	The number of replicates used in the experiment	From MIARE	1	-
RN Center Name	batch	LINCS center using the RNAi	-	1	YES