LINCS standardized siRNA and shRNA information									Notes
Unique ID	LINCS Field Name	Related to	Description	Importance (1: essential; 2: desirable / recommend 3: optional)	Comments	Ontologies / references considered	Suggested terminolog	Link to ontology / reference	Additional Notes (for development)
RN:1	RN_Name	canonical RNAi	The primary name of the siRNA or shRNA as chosen by LINCS	1	Should be descriptive and correspond to existing siRNA or shRNA names as much as possible; batch independent name				
RN:2	RN_LINCS_ID	canonical RNAi	Unique LINCS internal identifier	1	LINCS internal ID; this is a batch independent ID; canonical siRNA or shRNA ID				
RN:3	RN_Probe_ID	canonical RNAi	ID of the siRNA or shRNA as listed in NCBI Probe database	1, if available		NCBI/Probe	Probe_ID	http://www	
RN:4	RN_Probe_Title	canonical RNAi	Name of the siRNA or shRNA as listed in NCBI Probe database	1, if available		NCBI/Probe		http://www	
RN:5	RN_Probe_Type	canonical RNAi	A controlled vocabulary specifying whether the probe is an siRNA , esiRNA, or shRNA	1		BAO	siRNA; esiRNA; shRNA	http://biop	
RN:6	RN_Vendor_name	batch	Vendor or lab that supplied the reagent	1			Vendor name		
RN:7	RN_Vendor_ID	batch	ID or catalogue number assigned to the reagent by the vendor or provider	1			Vendor ID		
RN:8	RN_Batch_ID	batch	Batch or lot number assigned to the reagent by the vendor or provider	1			Vendor batch ID		
RN:9	RN_shRNA_Construct	canonical RNAi	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.	2	for shRNA only	BAO	RNA interferenc construct	http://biopo	
RN:10	RN_shRNA_Vector_Reference	canonical RNAi	Reference to publication or contact information (if applicable)	2	for shRNA only	PubMed	PMID		
RN:11	RN_Target_Gene_Symbol	canonical RNAi	The NCBI Entrez Gene Symbol for the gene targeted by the siRNA or shRNA	1	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.	NCBI/Gene	Gene	http://www	
RN:12	RN_Target_Gene_ID	canonical RNAi	The NCBI Entrez Gene ID for the gene targeted by the siRNA or shRNA	1		NCBI/Gene	Gene ID	http://www	
RN:13	RN_RNAi_Sense_Sequence	canonical RNAi	The nucleotide sequence of the sense (passenger) strand of the siRNA or the processed shRNA.	2	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.	BAO and NCBI Probe/vendor/ laboratory	siRNA antisense sequence	http://biop http://www	

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RN:14	RN_Validation_Information	canonical RNAi	Information about experimental verification of siRNA/shRNA activity. A reference (PubMed or other suitable reference) should be provided.	2	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.	PubMed	PMID		
LINCS experimental siRNA and shRNA related information									**Notes**
EXP_RN:1	RN_Silencing_Reagents	experiment	Number of combined silencing RNA reagents per well	1	From MIARE				
EXP_RN:2	RN_Delivery_Type	experiment	Describe type of delivery, e.g. reverse transfection, infection, electroporation, intravenous injection, shooting, feeding	1	From MIARE	BAO	Silencing RNA delivery method	http://biop	
EXP_RN:3	RN_Delivery_Reagent	experiment	Delivery reagent description, including, type, name, catalog number, manufacturer, and final concentration	2	From MIARE	BAO	Transfectio agent	http://biop	
EXP_RN:4	RN_Concentration_Of_Silencin	experiment	The final concentration of the silencing reagents	2	From MIARE				
EXP_RN_5	RN_Cell_Number	experiment	Number of cells per well in the delivery plate	1	From MIARE	BAO	Cell number	http://biop	
EXP_RN:6	RN_Assay_Conditions	experiment	Time to assay point from delivery of silencing RNA reagent; time of exposure of silencing RNA reagent; media changes	2	From MIARE				
EXP_RN:7	RN_Number_Of_Replicates	experiment	The number of replicates used in the experiment	1	From MIARE				