

Table S1. Training and testing datasets

	species	source	Number of lncRNAs	Number of mRNAs
Training datasets	Human	Gencode.v19	10,000	NA
	Human	Refseq	NA	10,000
Testing datasets	Human	Gencode.v19	13,529	NA
	Human	Refseq	NA	13,529
	Gorilla	Ensemble.v76	367	350
	Macaque	Ensemble.v76	358	350
	Orangutan	Ensemble.v76	380	400
	Mouse	Ensemble.v76	500	500
	Xenopus	Ensemble.v76	94	100
	Anole lizard	Ensemble.v76	275	300
	Chicken	Ensemble.v76	43	50
	Zebrafish	Ensemble.v76	500	500
	Lamprey	Ensemble.v76	54	50
	C. elegans	Ensemble.v76	500	500