

Table S4. status of overlap

Overlap_Class	lncRNA_Num	mRNA_Num	Pair_Num
Lnc-Overlap-mRNA	90	104	110
Lnc-AntiOverlap-mRNA	1070	1279	1444
Lnc-CompleteIn-mRNAExon	5	6	6
Lnc-AntiCompleteIn-mRNAExon	62	74	75
mRNA-CompleteIn-LncExon	10	10	10
mRNA-AntiCompleteIn-LncExon	79	88	89
Lnc-CompleteIn-mRNAIntron	153	172	207
Lnc-AntiCompleteIn-mRNAIntron	143	150	187
mRNA-CompleteIn-LncIntron	10	10	11
mRNA-AntiCompleteIn-LncIntron	35	44	50

Overlap\_Class: The category of the overlap; lncRNA\_Num: number of lncrnas that overlap with mRNA; mRNA\_Num:

Number of mRNA overlap with lncRNA; Pair\_Num: Lncrna-mrna logarithm of overlap exists.