

## Supplementary material:

**Table 1:** Status of dispersed SINEs in rice genome:

SINE ELEMENTS					
Name	Total	BOTH OK	BOTH TR	5' OK	3' OK
SINE03_OS	7514	10	7072	349	83
CASINE	479	1	299	143	36
F524	766	119	295	121	231
SINE1OS	392	2	168	217	5
SINE1R5_OS	578	16	416	71	75
SINE9_OS	1207	44	816	215	132
SINE16_OS	489	21	236	29	202
ORMOSIA	228	27	54	11	136
p-SINE1_OS1	612	0	599	5	8
SINE6_OS	472	18	123	6	325
SINE8_OS	138	20	19	15	84
p-SINE1_OS	612	0	598	14	0
TOTAL	13487	278	10695	1196	1317

**Table 2:** Status of dispersed LINEs in rice genome:

LINE ELEMENTS					
Name	Total	BOTH OK	BOTH TR	5' OK	3' OK
LINE-5	192	17	97	69	9
LINE5A	247	17	154	14	62
LINE-3	556	0	514	39	3
LINE-1	330	1	304	5	20
OSLINE1_1	20	1	19	0	0
LINE-7_OS	30	1	16	0	13
LINE-6_OS	185	2	137	0	46
TOTAL	1560	39	1241	127	153

**Table 3:** The nucleotide percentage in upstream sequences to the insertion site of SINEs in rice genome:

Retroelement Type	Thymine (T)	Cytosine (C)	Adenine (A)	Guanine (G)
LINEs	13.6 %	17.5 %	45.8 %	23.1 %
SINEs	30.9 %	17.3%	32.1%	19.7%