

Appendix A Distribution of small RNA among different categories (samples ck and Zn deficiency).

ck				
Category	Unique sRNAs	Percent(%)	Total sRNAs	Percent(%)
Total	4860781	100%	18083538	100%
Exon antisense	3856	0.08%	17867	0.10%
Exon sense	7991	0.16%	16576	0.09%
Intron antisense	373	0.01%	539	0.00%
Intron sense	582	0.01%	856	0.00%
miRNA	820	0.02%	2065547	11.42%
rRNA	169555	3.49%	2626436	14.52%
repeat	2348	0.05%	22188	0.12%
snRNA	3897	0.08%	12141	0.07%
snoRNA	1978	0.04%	6641	0.04%
tRNA	54608	1.12%	934514	5.17%
unann	4614773	94.94%	12380233	68.46%
Zn deficiency				
Category	Unique sRNAs	Percent(%)	Total sRNAs	Percent(%)
Total	5867732	100%	19869174	100%
Exon antisense	4272	0.07%	17560	0.09%
Exon sense	7838	0.13%	17111	0.09%
Intron antisense	449	0.01%	692	0.00%
Intron sense	652	0.01%	969	0.00%
miRNA	885	0.02%	1988220	10.01%
rRNA	155724	2.65%	2343280	11.79%
repeat	2972	0.05%	48518	0.24%
snRNA	3675	0.06%	9981	0.05%
snoRNA	1707	0.03%	5584	0.03%
tRNA	47120	0.80%	902516	4.54%
unann	5642438	96.16%	14534743	73.15%