

**Table S2. Non-coding RNAs and Repeat in *O. alta* Genome, Related to Table 1 and Figure 2.**

<b>Non-coding RNA</b>	<b>Number</b>	<b>Mean length (bp)</b>	<b>Total length (bp)</b>	<b>Max ncRNA type</b>
tRNA	1,147	74.22	85,129	Leu (97)
rRNA	2,032	304.65	418,082	5S rRNA (1,699)
miRNA	12,332	126.29	1,000,091	mir-2973 (11,576)
snoRNA	1,057	98.39	106,082	snoR71 (241)
snRNA	207	155.43	30,515	U2 (52)
srpRNA	10	308.50	3,085	srpRNA (10)
Other ncRNA	319	219.55	31,458	Intron gpII (300)
Total ncRNA	17,104			

  

<b>Repeat</b>	<b>Length (bp)</b>	<b>Number</b>	<b>Percentage (%)*</b>
DNA transposons			
CMC-EnSpm	38,890,325	32,447	4.35
PIF-Harbinger	1,788,385	3,433	0.20
MULE-MuDR	7,071,216	9,580	0.79
hAT-Tag1	619,120	1,332	0.07
hAT-Ac	4,095,279	6,931	0.46
hAT-Tip100	1,288,152	2,661	0.14
LTR			
Caulimovirus	1,035,720	747	0.12
Copia	37,297,504	31,013	4.17
Gypsy	177,597,731	112,142	19.85
LINE			
L1	7,523,825	16,490	0.84
Helitron	2,544,790	3,699	0.28
Unknown	263,262,055	740,279	29.43
Low_complexity	873,192	17,777	0.10
Simple_repeat	6,524,389	150,059	0.73
snRNA	59,300	295	0.01
rRNA	1,054,411	877	0.12