Table S1. Percentages of Type I sites with CB value less or greater than 1.

Genome	Experimental dataset		Control dataset 1		Control dataset 2	
type	CB < 1	CB > 1	CB < 1	CB > 1	CB < 1	CB > 1
dsDNA ¹	19454	17523	1123894	1061083	259161	229040
	(52.4%)	(47.2%)	(51.2%)	(48.3%)	(52.8%)	(46.7%)
ssDNA ^{1,2}	880	453	28202	19364	109131	65822
	(65.5%)	(33.7%)	(58.9%)	(40.5%)	(62.0%)	(37.4%)
ssRNA ²	166	89	2595	1531	554576	445131
	(65.1%)	(34.9%)	(62.6%)	(37.0%)	(55.1%)	(44.2%)
dsRNA	8	9	2283	1934	17811	13598
	(47.1%)	(52.9%)	(53.9%)	(45.7%)	(56.3%)	(43.0%)

¹The experimental set significantly differs from Control set 1 (*p*-value<0.01, Fisher's exact test)

Table S2. Percentages of Type IIM sites with CB value less or greater than 1.

Genome	Experimental dataset		Control dataset 1		Control dataset 2	
type	CB < 1	CB > 1	CB < 1	CB > 1	CB < 1	CB > 1
dsDNA ²	517	447	31033	24826	7490	7716
	(53.6%)	(46.4%)	(55.5%)	(44.4%)	(49.1%)	(50.6%)
ssDNA ²	74	31	1485	1083	6833	7840
	(70.5%)	(29.5%)	(57.7%)	(42.1%)	(46.4%)	(53.2%)
ssRNA	11	10	123	123	19128	17674
	(50.0%)	(45.5%)	(49.8%)	(49.8%)	(51.8%)	(47.9%)
dsRNA	1	0	50	80	851	812
	(100.0%)	(0.0%)	(38.5%)	(61.5%)	(51.0%)	(48.6%)

Table S3. Percentages of Type IIG sites with CB value less or greater than 1.

Genome	Experimental dataset		Control dataset 1		Control dataset 2	
type	CB < 1	CB > 1	CB < 1	CB > 1	CB < 1	CB > 1
dsDNA	2218	2210	532837	522623	135717	130518
	(50.0%)	(49.8%)	(50.3%)	(49.4%)	(50.8%)	(48.8%)
ssDNA	210	174	20970	17920	94165	73623
	(54.3%)	(45.0%)	(53.6%)	(45.8%)	(55.8%)	(43.6%)
ssRNA	33	33	2021	1701	328254	300991
	(49.3%)	(49.3%)	(54.0%)	(45.5%)	(51.9%)	(47.6%)
dsRNA	0	0	1267	1195	12320	10670
	(0.0%)	(0.0%)	(51.3%)	(48.4%)	(53.3%)	(46.1%)

²The experimental set significantly differs from Control set 2 (*p*-value<0.01, Fisher's exact test)

Table S4. Percentages of Type III sites with CB value less or greater than 1.

Genome	Experimental dataset		Control dataset 1		Control dataset 2	
type	CB < 1	CB > 1	CB < 1	CB > 1	CB < 1	CB > 1
dsDNA ¹	3256	3039	240882	246265	66544	66147
	(51.7%)	(48.2%)	(49.4%)	(50.5%)	(50.0%)	(49.7%)
ssDNA ^{1,2}	457	265	11120	10232	60383	52143
	(63.0%)	(36.6%)	(51.9%)	(47.7%)	(53.4%)	(46.1%)
ssRNA	69	65	1103	1009	162116	163084
	(51.5%)	(48.5%)	(52.0%)	(47.6%)	(49.7%)	(50.0%)
dsRNA	4	2	599	535	6769	6404
	(66.7%)	(33.3%)	(52.7%)	(47.1%)	(51.2%)	(48.4%)

Table S5. Percentages of Type IV sites with CB value less or greater than 1.

Genome	Experimental dataset		Control dataset 1		Control dataset 2	
type	CB < 1	CB > 1	CB < 1	CB > 1	CB < 1	CB > 1
dsDNA ^{1,2}	477	45	4316	1768	855	839
	(91.4%)	(8.6%)	(70.9%)	(29.1%)	(50.4%)	(49.5%)
ssDNA ²	43	8	216	76	765	970
	(84.3%)	(15.7%)	(74.0%)	(26.0%)	(44.0%)	(55.7%)
ssRNA	5	5	17	11	2290	1911
	(50.0%)	(50.0%)	(60.7%)	(39.3%)	(54.4%)	(45.4%)
dsRNA	0	0	3	11	102	92
	(0.0%)	(0.0%)	(21.4%)	(78.6%)	(52.6%)	(47.4%)

Table S6. Percentages of asymmetric Type II sites with CB value less or greater than 1.

Genome	Experimental dataset		Control dataset 1		Control dataset 2	
type	CB < 1	CB > 1	CB < 1	CB > 1	CB < 1	CB > 1
dsDNA ^{1,2}	3871	2860	224639	209729	58067	56533
	(57.5%)	(42.4%)	(51.6%)	(48.2%)	(50.5%)	(49.2%)
ssDNA ¹	288	185	9490	7841	48212	38396
	(60.4%)	(38.8%)	(54.5%)	(45.0%)	(55.4%)	(44.1%)
ssRNA	46	43	908	789	145262	129583
	(50.5%)	(47.3%)	(53.2%)	(46.2%)	(52.6%)	(46.9%)
dsRNA	1	1	509	491	5616	4979
	(50.0%)	(50.0%)	(50.7%)	(48.9%)	(52.8%)	(46.8%)