

**Supplementary Table 10. The Average Length of Nucleotides Added and Trimmed in the Junctional Regions of IgM Repertoires**

Junctional Modification	Average Length (nt)									
	3VP	5DP	3DP	5JP	N1	N2	3VT	5DT	3DT	5JT
<b>HH</b>	1.57 ± 0.75	1.64 ± 0.83	1.36 ± 0.71	1.47 ± 0.80	7.03 ± 4.83	6.49 ± 4.87	2.25 ± 1.59	6.62 ± 4.74	6.22 ± 4.06	6.01 ± 4.77
<b>IHB</b>	1.55 ± 0.77	1.59 ± 0.75	1.39 ± 0.72	1.46 ± 0.80	6.95 ± 4.88	6.67 ± 5.05	2.25 ± 1.60	6.66 ± 4.85	6.23 ± 4.12	6.12 ± 4.78
<b>CHB</b>	1.56 ± 0.74	1.68 ± 0.92	1.37 ± 0.72	1.45 ± 0.74	6.80 ± 4.81	6.34 ± 4.77	2.30 ± 1.62	6.81 ± 4.97	6.19 ± 4.14	5.95 ± 4.78
<i>Cohen's d</i> <sup>a</sup> <b>(HH vs. IHB)</b>	0.03	0.08	0.05	0.01	0.004	0.01	0.003	0.002	0.001	0.01
<i>Cohen's d</i> <sup>a</sup> <b>(HH vs. CHB)</b>	0.01	0.04	0.01	0.03	0.01	0.01	0.01	0.01	0.002	0.003
<i>Cohen's d</i> <sup>a</sup> <b>(IHB vs. CHB)</b>	0.02	0.12	0.04	0.02	0.01	0.01	0.01	0.01	0.003	0.01

a: Calculated by Student's t test; *Cohen's d* Value: when  $d \geq 0.20$ , the difference were considered to be significant.