

**Table S7** Paired t-test of amino acid usage in regions with different GC-content between real data and random sequences

<b>Amino acid</b>	<b><i>P</i> value</b>
Ala	7.34E-14
Gly	4.12E-02
Pro	1.37E-08
Arg	< 2.2e-16
Trp	2.71E-12
Val	9.10E-09
His	< 2.2e-16
Cys	< 2.2e-16
Thr	3.39E-08
Asp	< 2.2e-16
Gln	< 2.2e-16
Ser	< 2.2e-16
Glu	< 2.2e-16
Leu	9.05E-06
Met	< 2.2e-16
Tyr	3.57E-01
Phe	3.01E-10
Asn	< 2.2e-16
Lys	< 2.2e-16
Ile	4.12E-07