**Supplemental Table S3** Linear correlation coefficients between the G+C content and the intensities of CG and TA independent selections in each species group

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Animal |  |  | Plant | Fungus | Archaca | Eubacteria |
|  | Pri | Rod | Mam | Vrt | Inv |  |  |  |  |
|  | (13) | (14) | (22) | (20) | (43) | (63) | (245) | (200) | (300) |
| δCG2-G+C% | 0.210 | -0.144 | -0.675\*\* | -0.482\* | -0.524\*\* | -0.860\*\* | -0.812\*\* |  |  |
| δCG1-G+C% | 0.221 | -0.516 | -0.697\*\* | -0.472\* | -0.601\*\* | -0.895\*\* | -0.875\*\* | -0.897\*\* | -0.886\*\* |
| ρCG2-G+C% | 0.248 | -0.167 | -0.576\*\* | -0.656\*\* | -0.737\*\* | -0.740\*\* | -0.808\*\* |  |  |
| ρCG1-G+C% | 0.385 | -0.342 | -0.702\*\* | -0.550\* | -0.674\*\* | -0.844\*\* | -0.794\*\* | -0.758\*\* | -0.721\*\* |
| δTA2-G+C% | 0.669\* | 0.749\*\* | 0.767\*\* | 0.739\*\* | 0.706\*\* | 0.916\*\* | 0.785\*\* |  |  |
| δTA1-G+C% | -0.227 | 0.743\*\* | 0.853\*\* | 0.760\*\* | 0.816\*\* | 0.948\*\* | 0.925\*\* | 0.956\*\* | 0.903\*\* |
| ρTA2-G+C% | 0.568\* | 0.400 | -0.384 | 0.148 | 0.273 | 0.833\*\* | 0.348\*\* |  |  |
| ρTA1-G+C% | 0.514 | 0.638\* | 0.368 | 0.472\* | 0.426\*\* | 0.891\*\* | 0.715\*\* | 0.929\*\* | 0.768\*\* |

Note:Two-tailde significance:\*,P<0.05;\*\*,P<0.01.