

**Appendix 2. Weighting of the character-state transformations using the product CIex*S
(CIex, consistency index excluding uninformative characters; S, slope of saturation)**

	(A<->C) CIex*S	(A<->G) CIex*S	(A<->T) CIex*S	(C<->G) CIex*S	(G<->T) CIex*S	(C<->T) CIex*S
<i>I2S</i>	0.57*0.95	0.23*0.48	0.53*0.68	0.75*0.84	0.68*0.93	0.10*0.45
<i>CO2</i>	0.43*0.70	0.18*0.47	0.40*0.50	0.71*0.86	0.65*0.67	0.10*0.17
<i>Cyb</i>	0.34*0.70	0.21*0.51	0.37*0.65	0.62*0.89	0.64*0.82	0.10*0.26
<i>κ-Cas</i>	0.78*0.97	0.51*0.93	0.79*0.98	0.96*1	0.83*0.79	0.53*0.82
<i>PRKCi</i>	0.71*1	0.53*0.77	0.90*1	0.78*0.99	1*1	0.63*0.94
<i>SPTBNI</i>	0.94*1	0.44*0.90	0.85*1	0.88*1	0.83*1	0.57*0.98
<i>TG</i>	0.81*0.99	0.41*0.86	0.93*1	0.92*1	0.70*0.99	0.39*0.77