**Supplementary File 12.** Intron-IES conversion comparison in three species and Monte Carlo simulations

|  |  |  |  |
| --- | --- | --- | --- |
|   | *Euplotes* intron – *Oxytricha*/*Tetmemena* IES | *Tetmemena* intron – *Oxytricha*/*Euplotes* IES | *Oxytricha* intron – *Tetmemena*/*Euplotes* IES |
|   | expected | observed | *p*-value | expected | observed | *p*-value | expected | observed | *p*-value |
| Positions | 34 | 103 | <0.001 | 1.4 | 1 | 0.767 | 1.8 | 0 | - |
|   | *Euplotes* IES – *Oxytricha*/*Tetmemena* intron | *Tetmemena* IES – *Oxytricha*/*Euplotes* intron | *Oxytricha* IES – *Tetmemena*/*Euplotes* intron  |
|   | expected | observed | *p*-value | expected | observed | *p*-value | expected | observed | *p*-value |
| Positions | 2.4 | 24 | <0.001 | 11 | 34 | <0.001 | 7.6 | 12 | 0.098 |