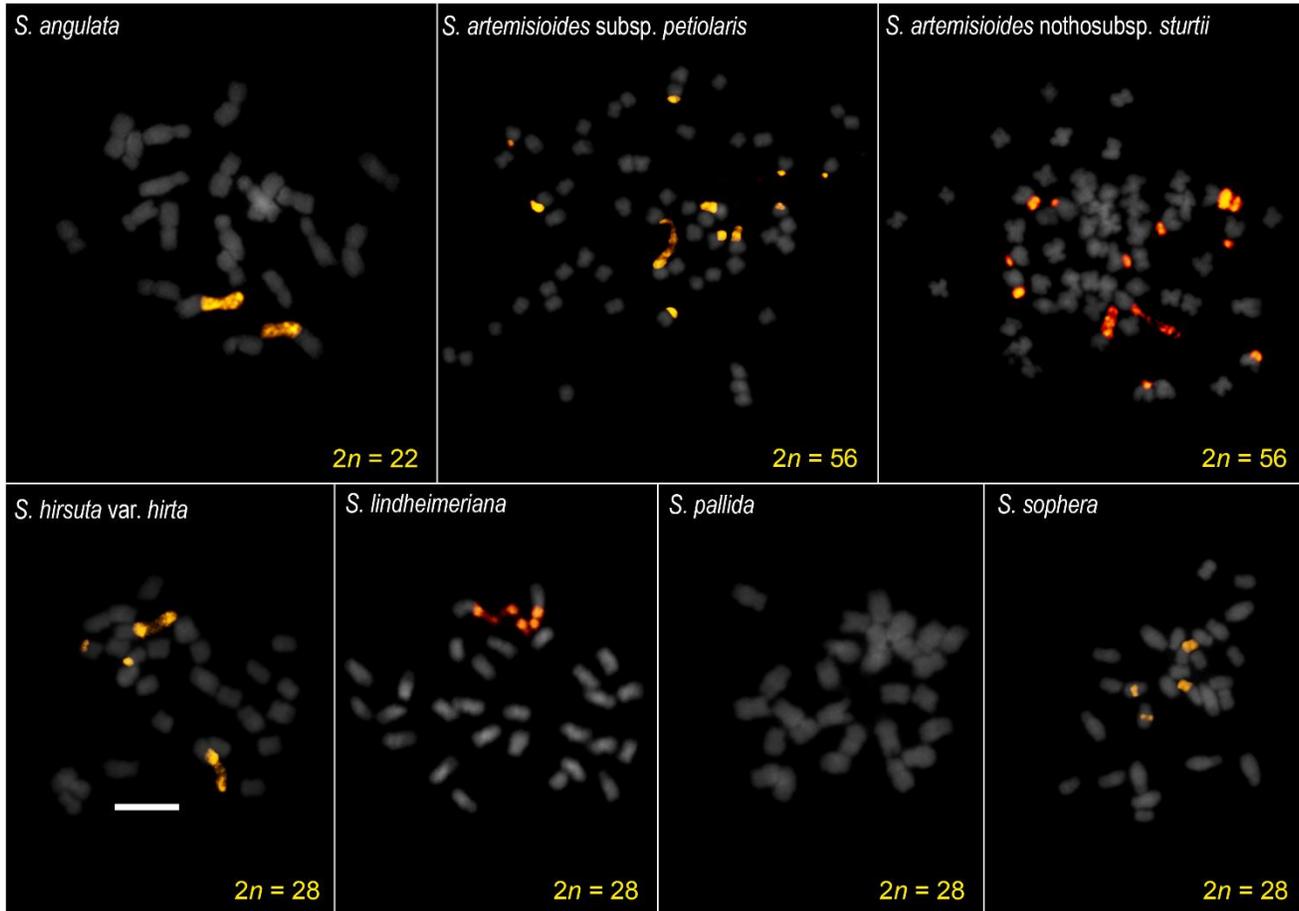
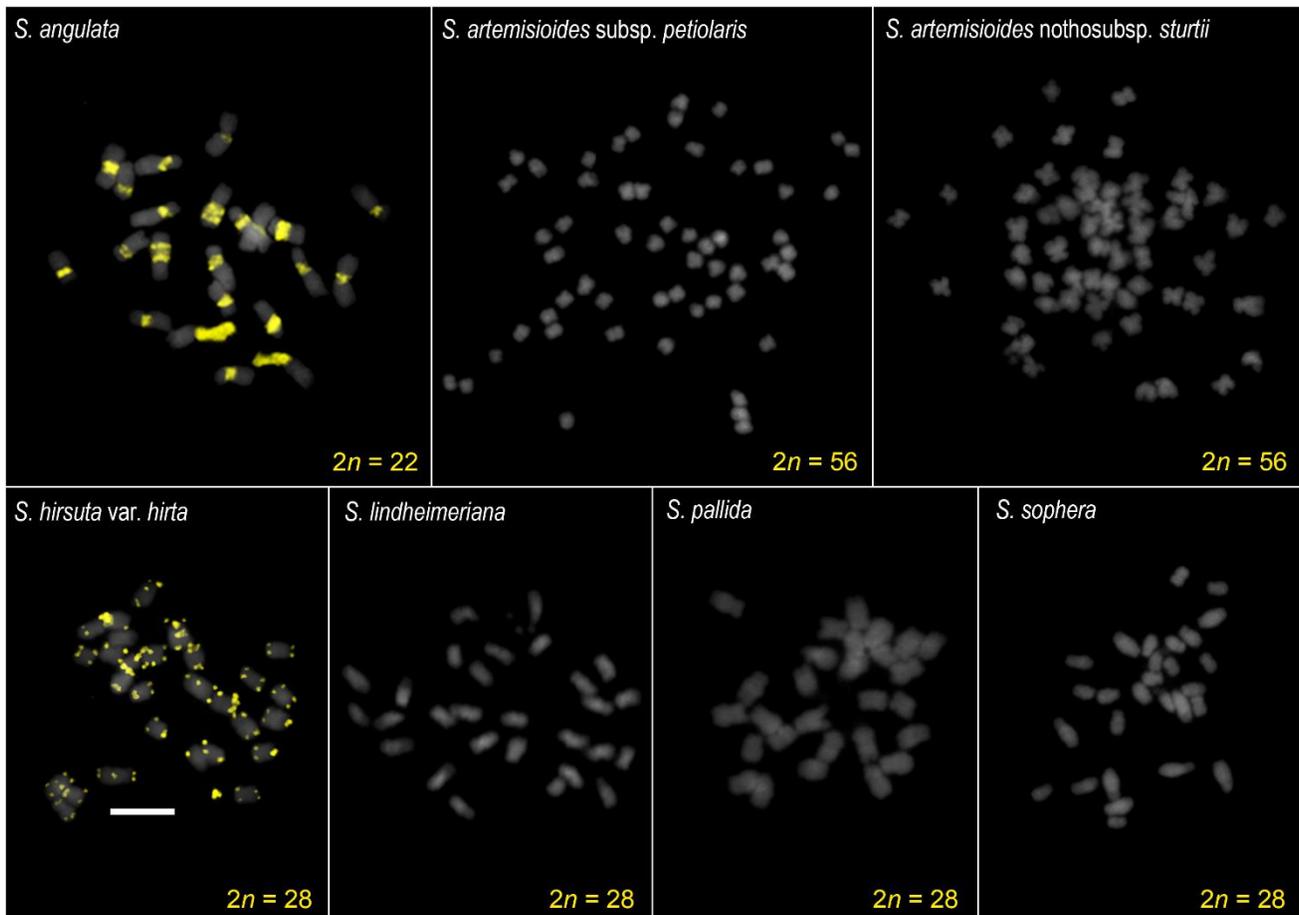


## Supplementary Material

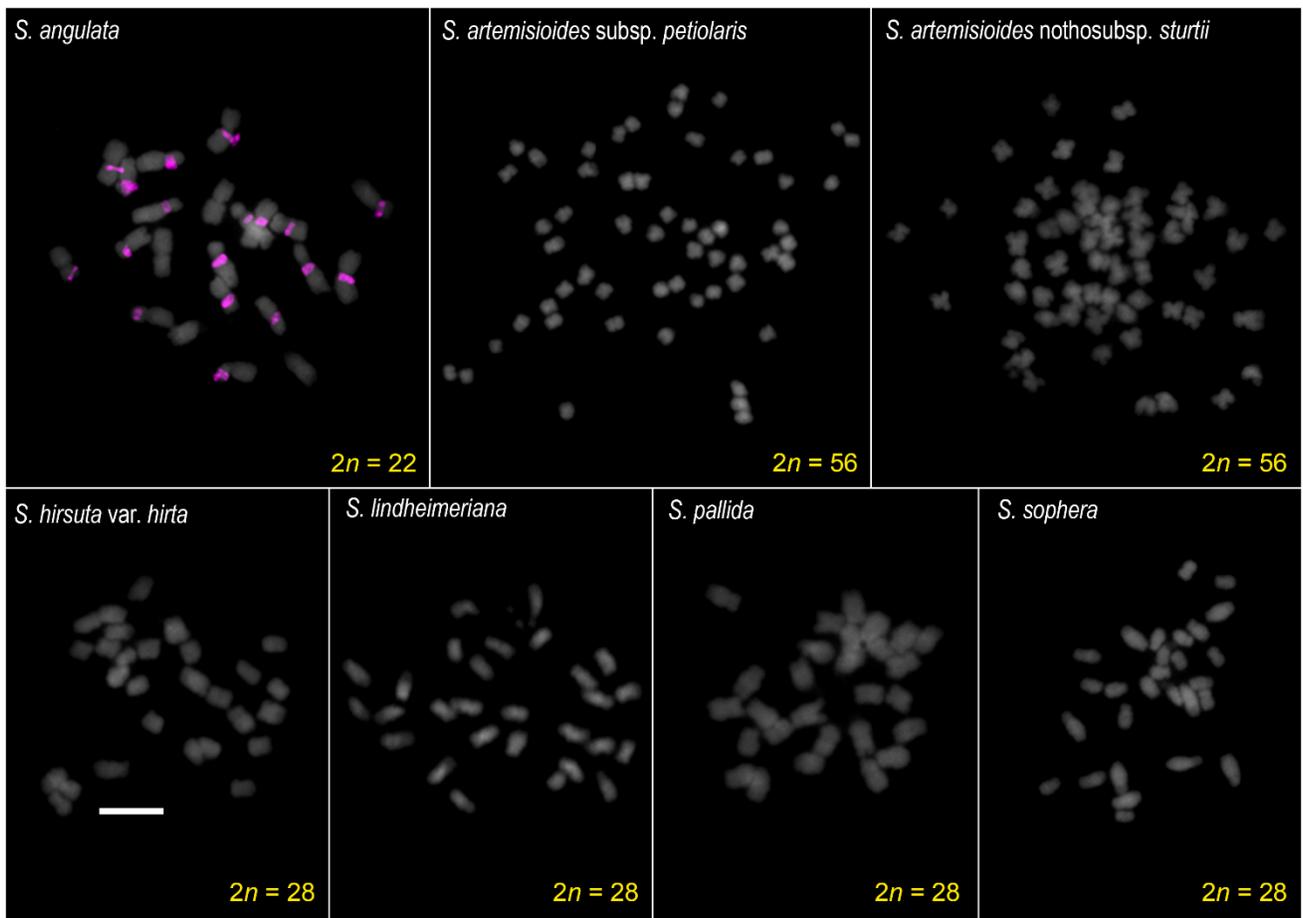
### 1.1 Supplementary Figures



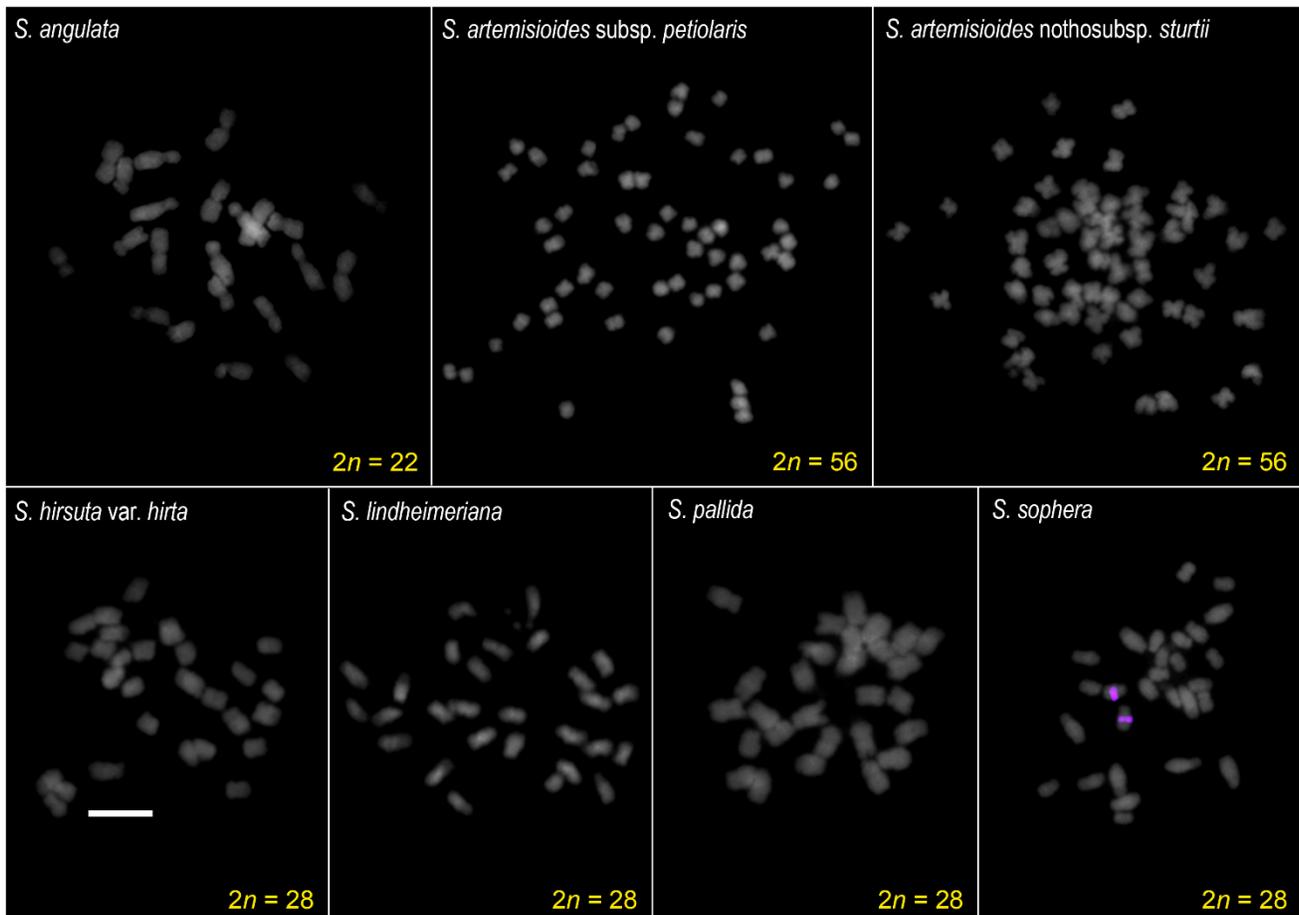
**Figure 1S.** Distribution of StoTR01\_86 in metaphase spreads in seven *Senna* species. StoTR01\_86 signals are labeled orange. Scale bar = 5  $\mu\text{m}$



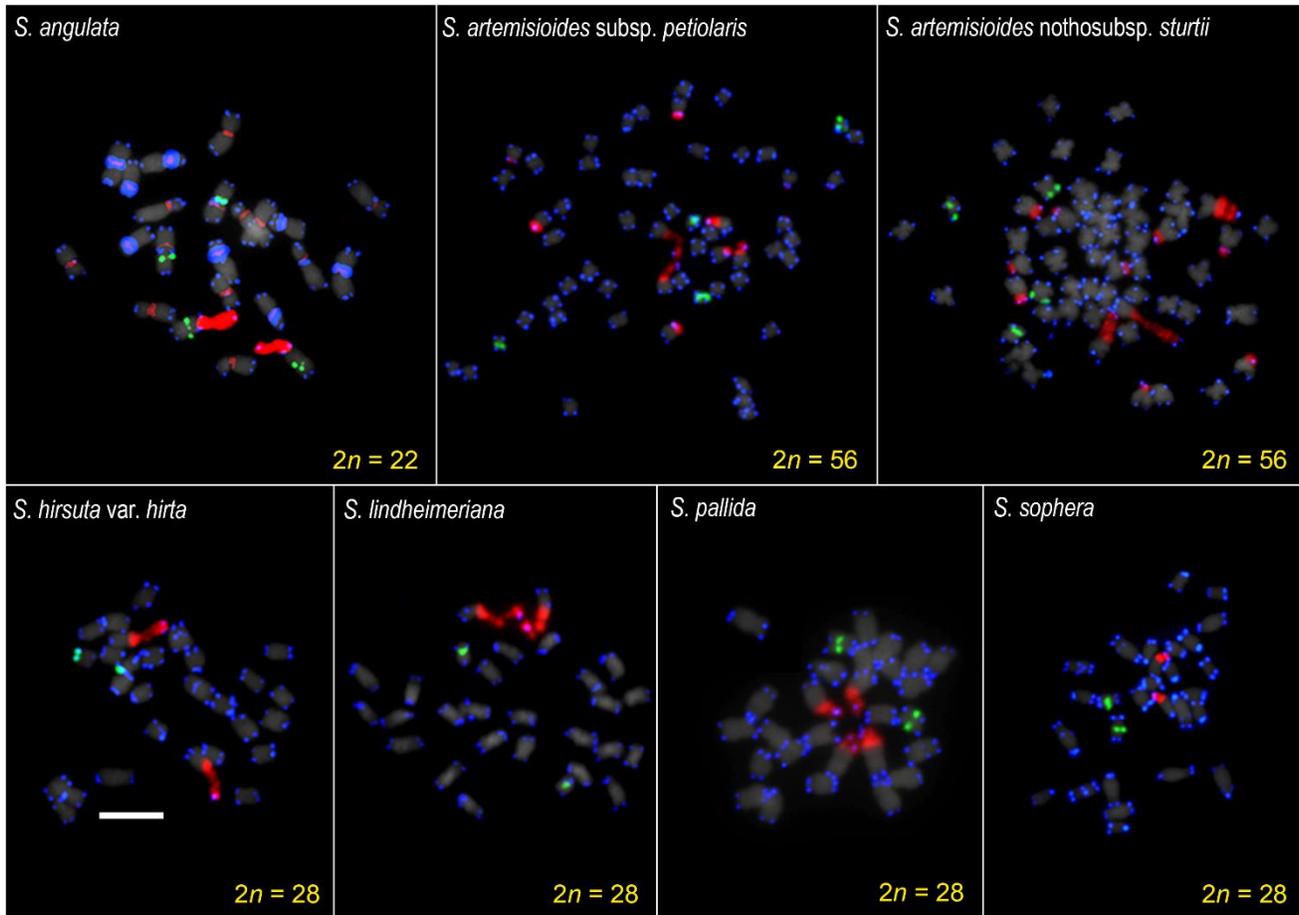
**Figure 2S.** Distribution of StoTR03\_178 in metaphase spreads in seven *Senna* species. StoTR03\_178 signal is indicated in yellow. Scale bar = 5  $\mu\text{m}$ .



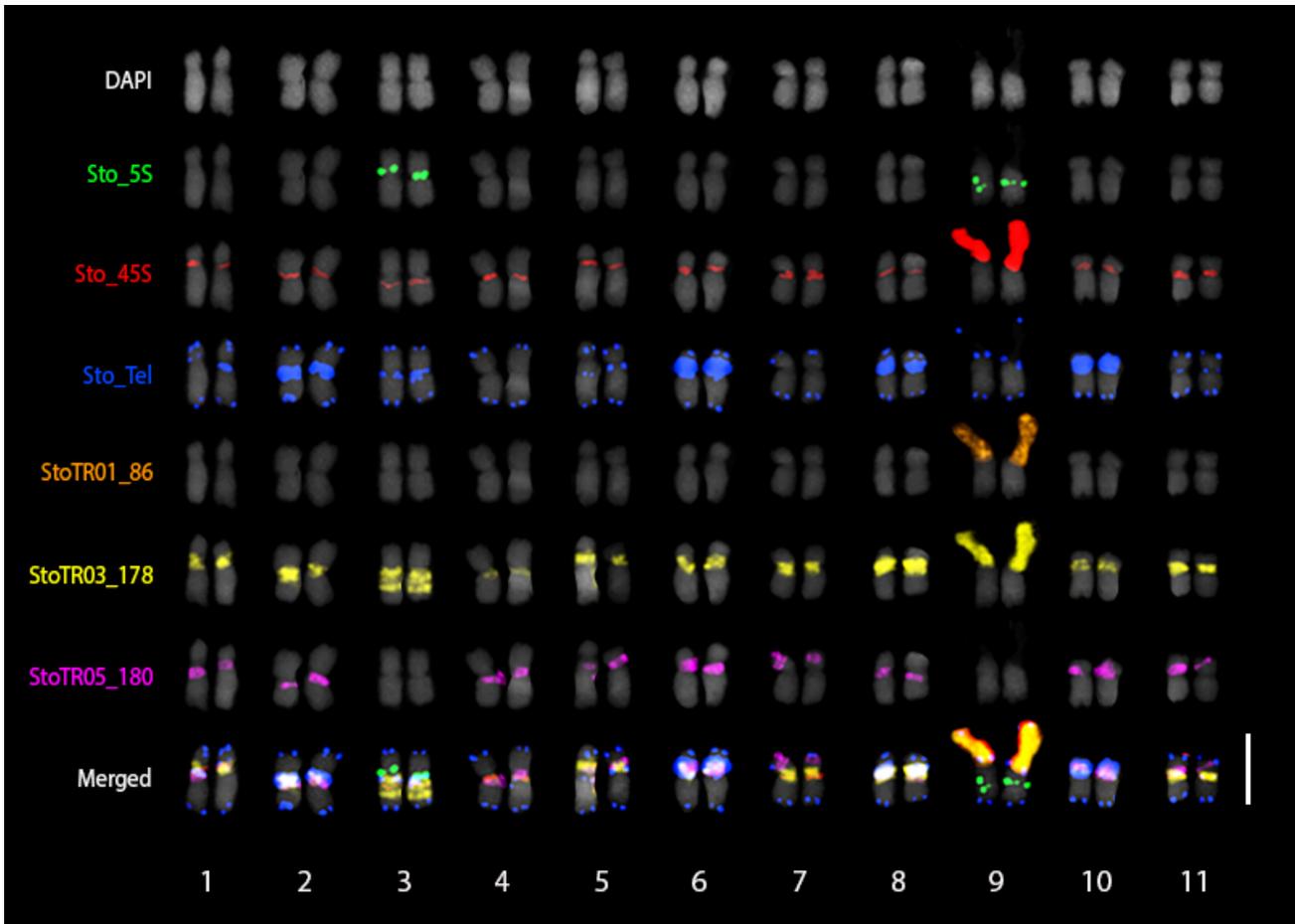
**Figure 3S.** Distribution of StoTR05\_180 in metaphase spreads in seven *Senna* species. StoTR05\_180 signals are labeled pink. Scale bar = 5  $\mu$ m



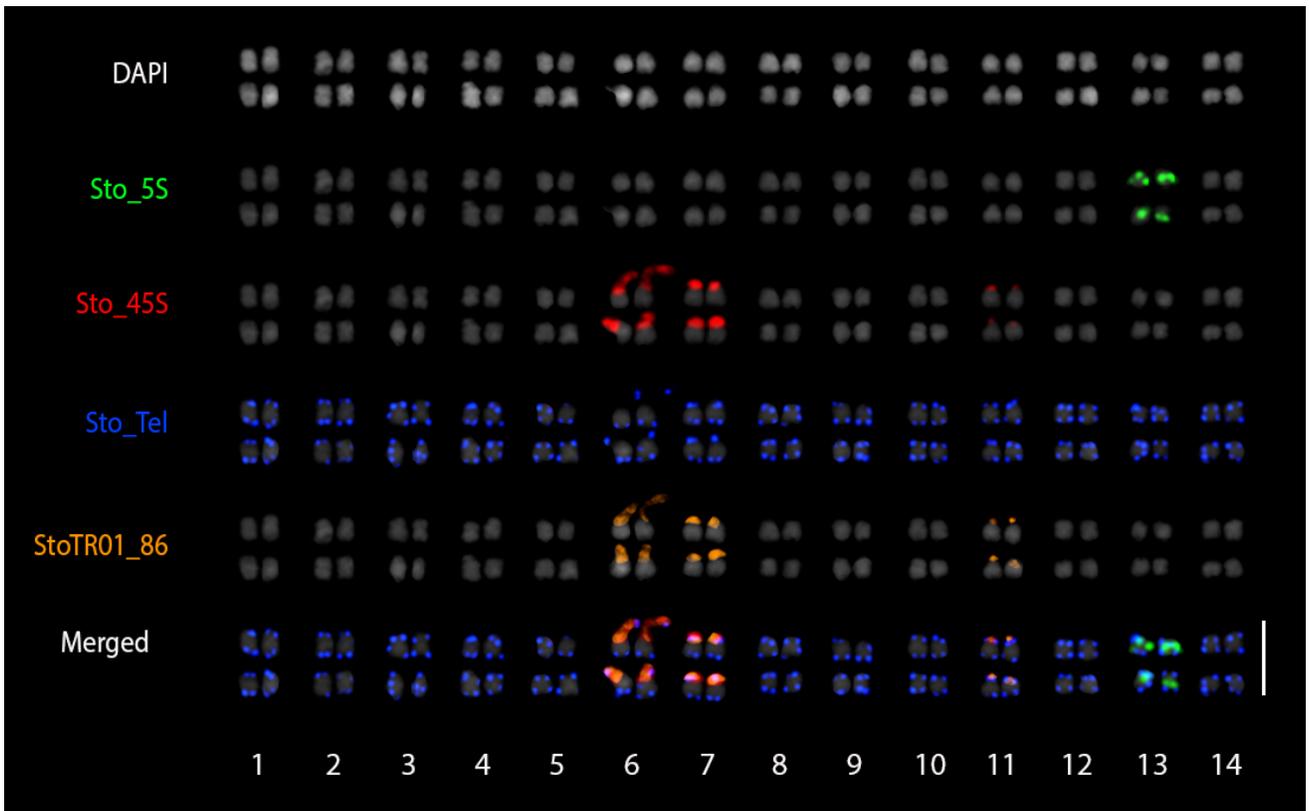
**Figure 4S.** Distribution of StoIGS\_463 in metaphase spreads in seven *Senna* species. The StoIGS\_463 signal is labeled purple. Scale bar = 5  $\mu$ m



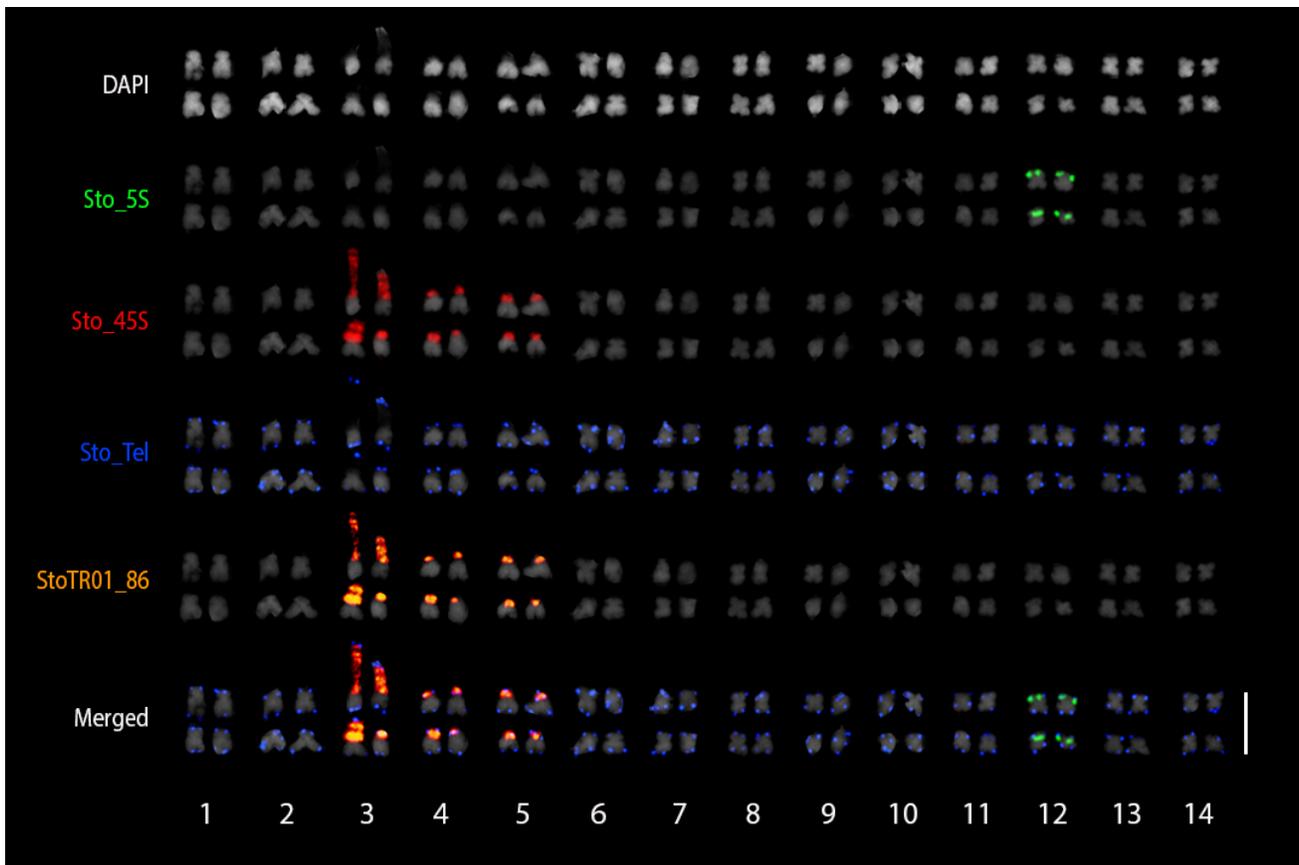
**Figure 5S.** Distribution of Sto\_5S, Sto\_45S, and Sto\_Tel repeat probes in the metaphase spreads in seven *Senna* species. Sto\_5S, Sto\_45S, and Sto\_Tel repeat signals are labeled green, red, and blue, respectively. Scale bar = 5  $\mu$ m



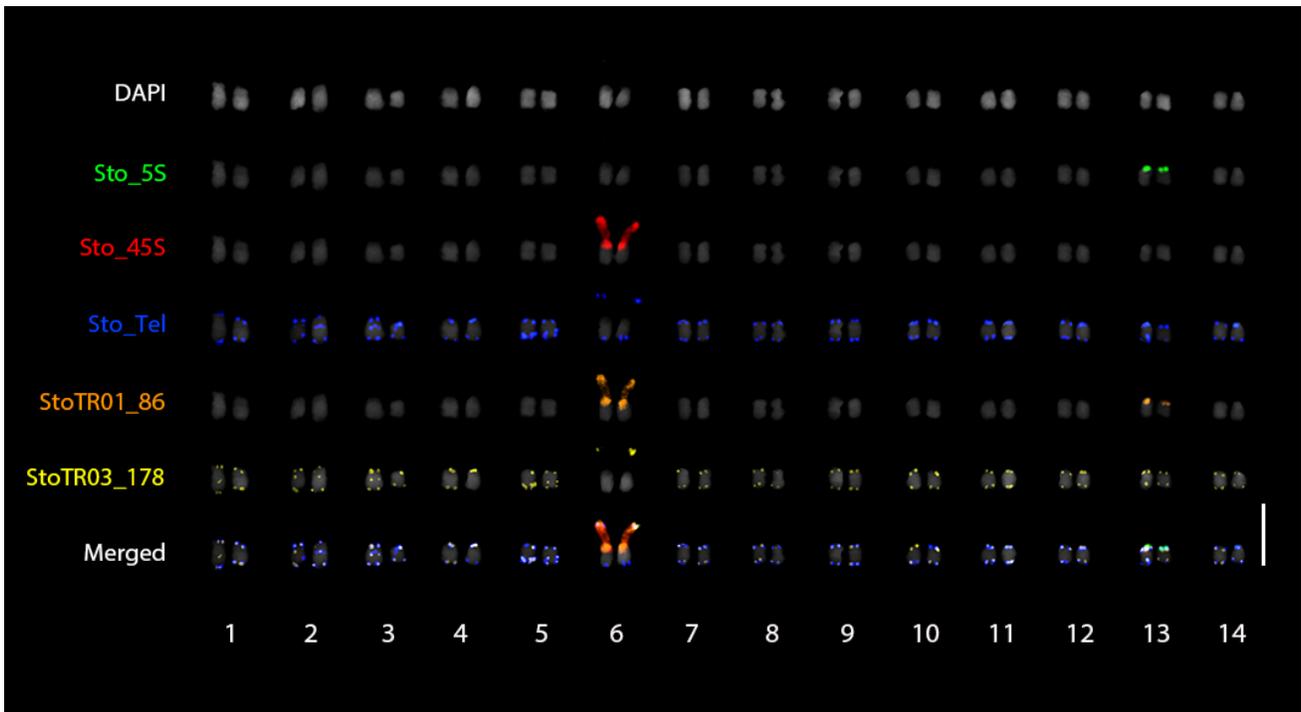
**Figure 6S.** FISH karyogram showing TR probe distribution in *S. angulata*. Scale bar = 5  $\mu$ m



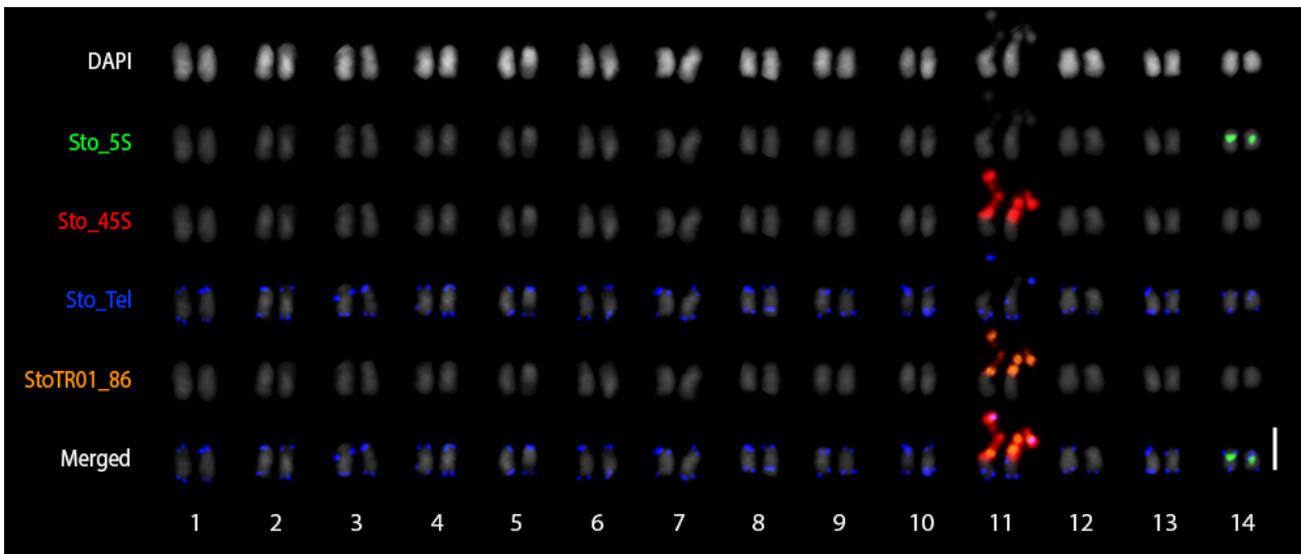
**Figure 7S.** FISH karyogram showing TR probe distribution in *S. artemisioides* subsp. *petiolaris*. Scale bar = 5  $\mu\text{m}$



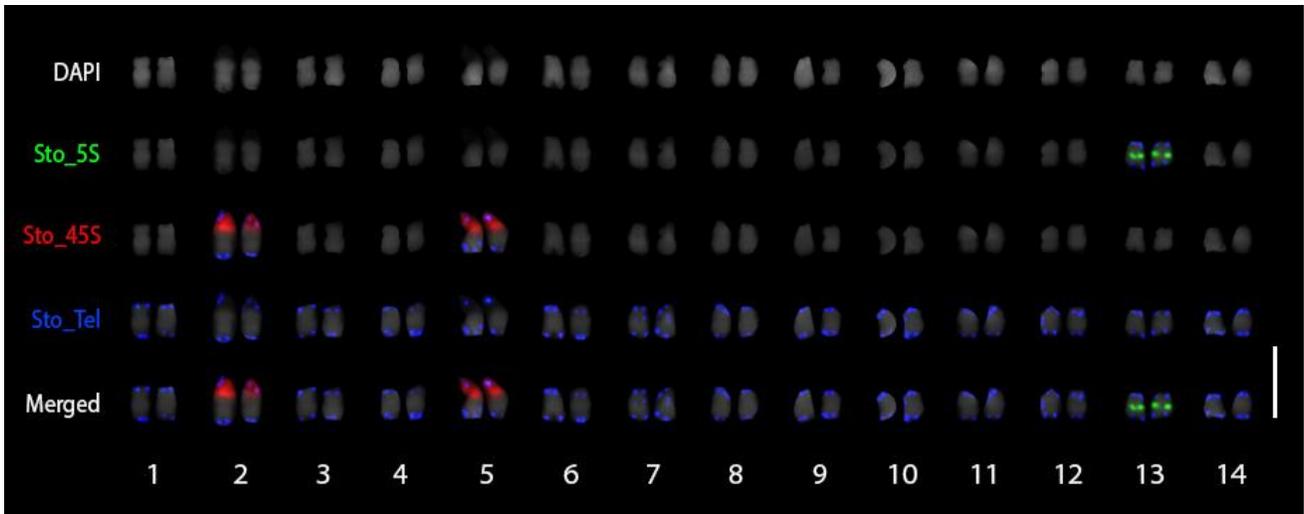
**Figure 8S.** FISH karyogram showing TR probe distribution in *S. artemisioides* nothosubsp. *sturtii*. Scale bar = 5 μm



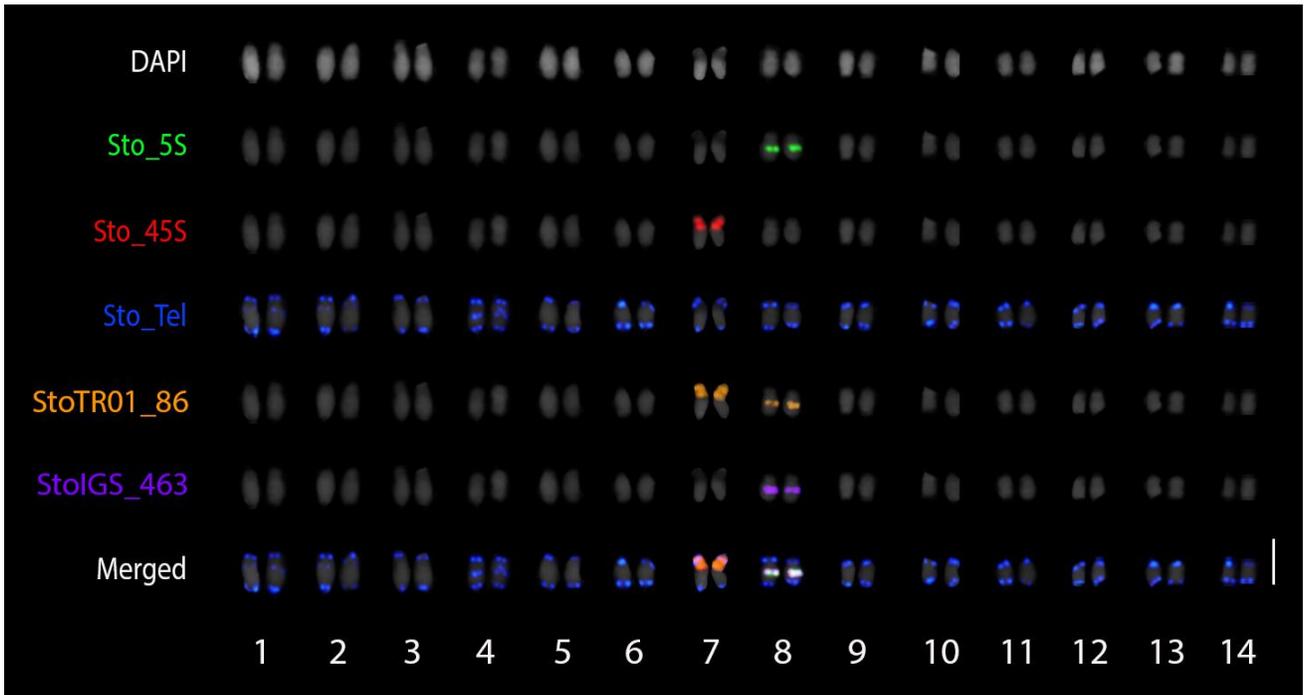
**Figure 9S.** FISH karyogram showing TR probe distribution in *S. hirsuta* var. *hirta*. Scale bar = 5  $\mu$ m



**Figure 10S.** FISH karyogram showing TR probe distribution in *S. lindheimeriana* using the TRs probes. Scale bar = 5  $\mu$ m



**Figure 11S.** FISH karyogram showing TR probe distribution in *S. pallida*. Scale bar = 5  $\mu$ m



**Figure 12S.** FISH karyogram showing TR probe distribution in *S. sophera*. Scale bar = 5  $\mu$ m