

Figure 5. Homology-dependent inhibition of IES excision by the maternal macronucleus. (*A*) During development of wild type, IES (yellow and green bars) are excised efficiently. (*B*) Transformation of the maternal macronucleus with a high copy number of an IES (initial transformants = Generation t) can inhibit the elimination of the homologous IES during the subsequent (Generation t+1, and future) rounds of new macronuclear differentiation. (*C*) Similar transformation with the IES $^-$ form of the gene does not change the wild-type rearrangement. (*D*) Transformation with IESs lacking flanking sequences results in inhibition of IES excision.

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