Supporting Information

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Guide to Supporting Sequence Files (FASTA format)

The following DNA sequence alignment files contain amplified products from:

(Dataset S2) TEBPβ F1: post-RNA injection, F1 generation partial *TEBP β* DNA
(Dataset S3) Actin F1: post-RNA injection, F1 generation complete *Actin I* DNA
(Dataset S4) Actin F2: post-RNA injection, F2 generation complete *Actin I* DNA
(Dataset S5) Actin F1 DNA: post-DNA injection, F1 generation complete *Actin I* DNA

Highlighted in red (A), green (T), yellow (G), and blue (C) in Dataset S1 are nucleotides that differ from the consensus set of sequences shown.

An asterisk indicates substitutions in the injected sequences that distinguish them from endogenous molecules.
Abbreviations are as follows:

TEBPbeta_inj_RNA: sequence of the injected *TEBP β* RNA
ActinI_inj_RNA: sequence of the injected *Actin I* RNA
ActinI_inj_DNA: sequence of the injected *Actin I* DNA

Sequences of cloned *TEBPβ* and *Actin I* nanochromosomes that derive from the progeny of injected cells display multiple allelic differences from the injected RNA and DNA. Sequence names correspond to analyzed DNA from the lane number on the respective gels in Figs. 1 and 2.

Table S1. PCR primers for generating probes and DNA sequence data (5′-3′)

TEBP β probe
  TEBPbeta-F CATTGAAGTGCTACGTCAAAGAATCATACCCAC
  TEBPbeta-R GGGTCTTCTTTGAACCAGTGGTGGTC
Actin I probe
  ActinI-F GTCGAGACTGATTAAAAGAGTCGATTGTGGC
  ActinI-R GATCTCATTCAACCCGTCCATAGCCAATC
TBE1 transposase probe
  TBE1-F ATGCGAGACAAAAATTACAAGCTATTGGG
  TBE1-R TTAACTTAACTCTAAAACTTATTTATAAACATTCACTCTCCCTTC
Pol-α probe
  Polalpha-F GATCAAAGTGGAAACACAAGTTATTTCGATGCTAAAAGTAG
  Polalpha-R GGAATCTAGATGAGCCAAAACCAAGGCAAC
TEBP α probe
  TEBPalpha-F CGCAAAGAGATTCGAAGATCTCCCCATC
  TEBPalpha-R GAACATATCGTTGGAGATAACTGAGTATTGGGTG
TEBP β PCR primers
  TEBPbetaPCR-F GCTCATTTCTTGGTTGATCTCTTTGAGGCC
  TEBPbetaPCR-R GAGCAAATCACAACAAGTTCAACAACAAAGCG
Actin I PCR primers
  ActinI-teloF CCCCAAAACCCCAAAACCCCATAAGGATATATTTTGACATATTATG
  ActinI-teloR CCCCAAAACCCCAAAACCCCATCGATCAAAATAAGTTATTTTTG

Other Supporting Information Files

Dataset S1 (PDF)
Dataset S2 (TXT)
Dataset S3 (TXT)
Dataset S4 (TXT)
Dataset S5 (TXT)