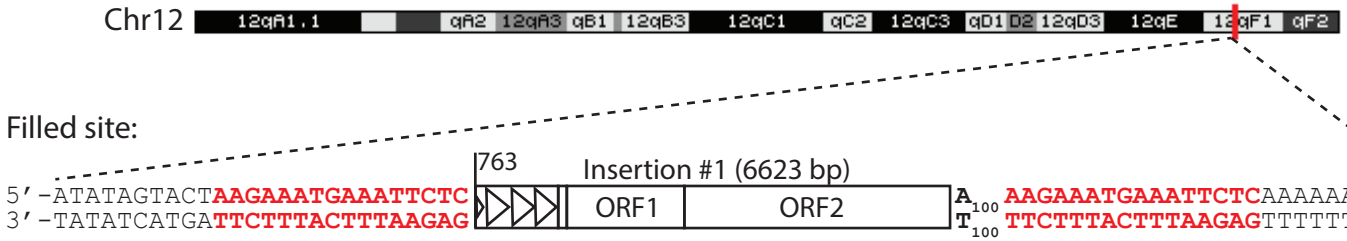
Supplemental Figure 4

Insertion #1

chr12 (qF1), +strand



L1 subfamily: Tf
Monomers: 3 + 77bp

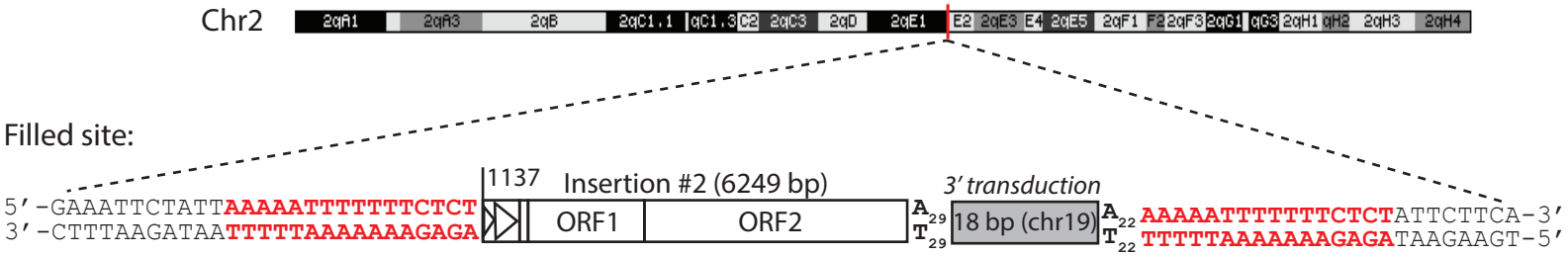
TSD: 16 bp
(Chr12, 109324399 - 109324414)

EN motif: 5′-TCTT/AG-3′

Developmental origin: male (SRB) primordial germline

Insertion #2

chr2 (qE1), -strand



L1 subfamily: Tf
Monomers: 1 + 124bp

TSD: 16 bp
(Chr2: 101251997-101252012)

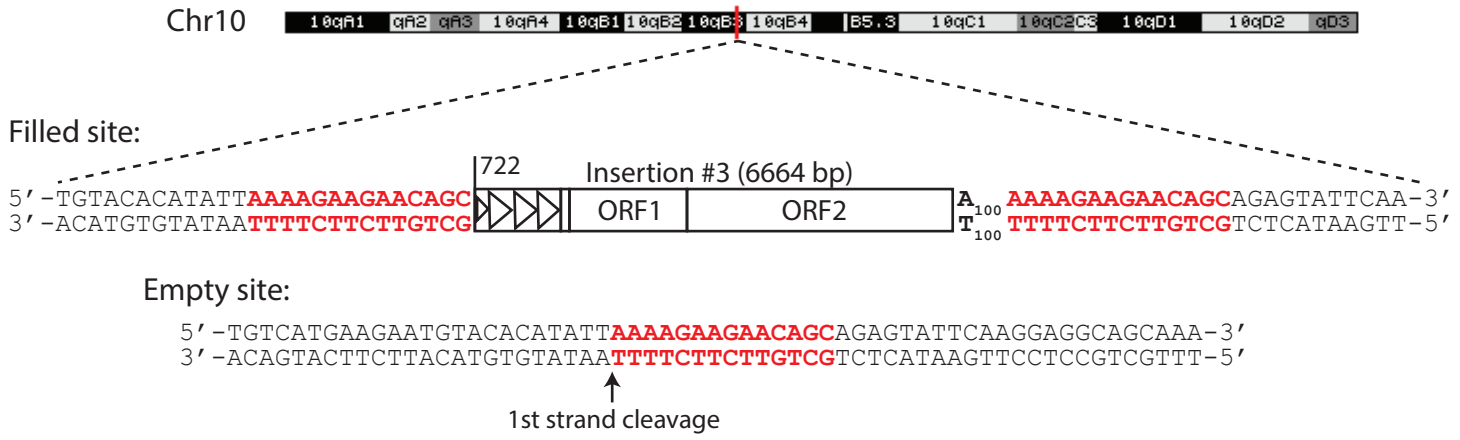
EN motif: 5′-TTTT/AA-3′

Developmental origin: Male (SRB) primordial germline

Supplemental Figure 4 (cont'd)

Insertion #3

chr10 (qB3), -strand



L1 subfamily: Tf
Monomers: 3 + 118 bp

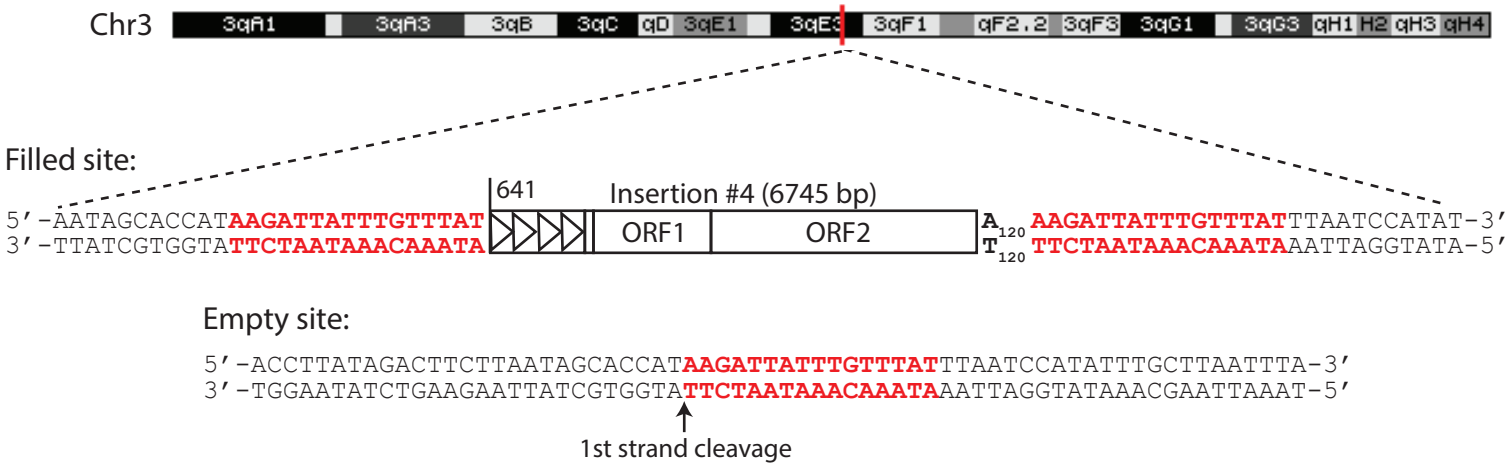
TSD: 14 bp
(chr10: 55,125,883-55,125,896)

EN motif: 5′-TTTT/AA-3′

Developmental origin: female (SRA) early embryo

Insertion #4

chr3 (qE3), +strand



L1 subfamily: Tf
Monomers: 4 minus 10 bp

TSD: 16 bp
(chr3: 81,424,430-81,424,445)

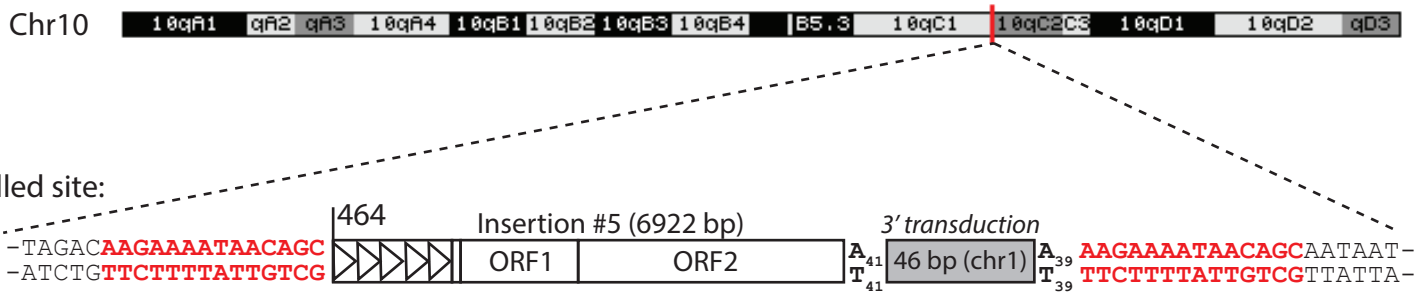
EN motif: 5′-TCTT/AT-3′

Developmental origin: Late germline (SRE or SRF)

Supplemental Figure 4 (cont'd)

Insertion #5

chr10 (qC1), +strand



Empty site:

5'-GATTTTTGTAAGATATCTTAGTAGACAAGAAAATAACAGCAATAATTTATAAATGGAATCGTA-3'
3'-CTAAAAACATTCTATAGAATCATCTGTTCTTTTATTGTCGTTATTAAATATTTACCTTAGCAT-5'

1st strand cleavage

L1 subfamily: Tf
Monomers: 5 minus 43 bp

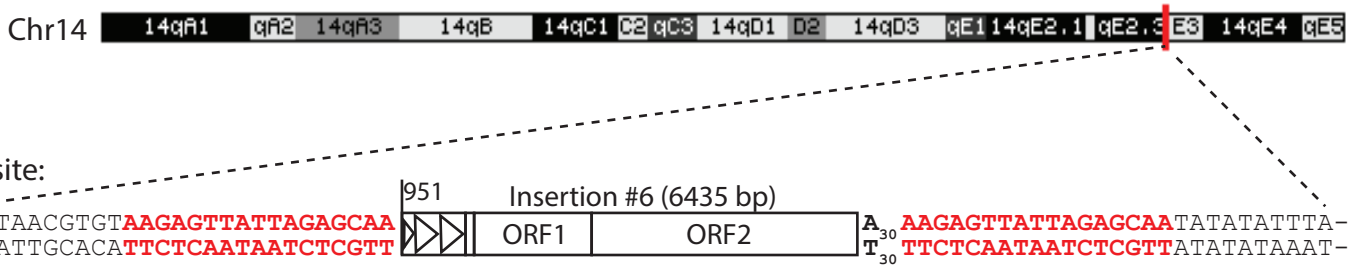
TSD: 14 bp
(chr10: 89,133,398 - 89,133,411)

EN motif: 5'-TCTT/GT-3'

Developmental origin: Female (SRE) early embryo

Insertion #6

chr14 (qE2.3), -strand



Empty site:

5'-CAGAATTTGAGTAACGTGTAACGTGTAAGAGTTATTAGAGCAATATATATTTATACCATCTTTAAGTT-3'
3'-GTCTTAAACTCATTGCACATTGCACATTCTCAATAATCTCGTTATATATAAATATGGTAGAAATTCAA-5'

1st strand cleavage

L1 subfamily: Tf
Monomers: 2 + 100bp

TSD: 17 bp
(Chr14, 107,023,820 - 107,023,836)

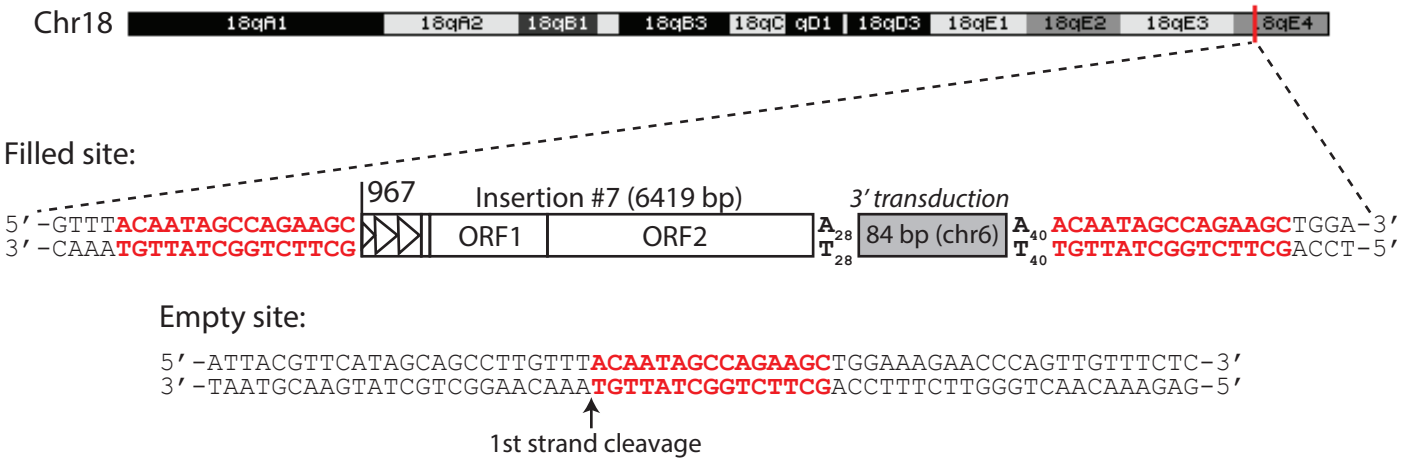
EN motif: 5'-TTCT/AC-3'

Developmental origin: Female (SRCD10) early embryo

Supplemental Figure 4 (cont'd)

Insertion #7

chr18 (qE4), -strand



L1 subfamily: Tf
Monomers: 2 + 84bp

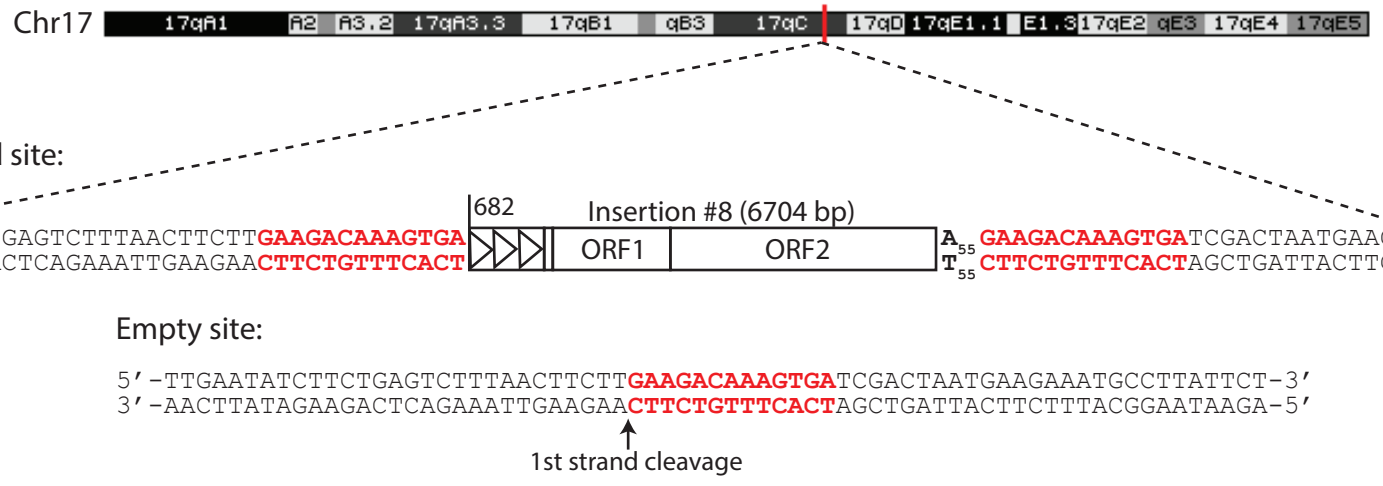
TSD: 15 bp
(Chr18: 85,067,455 - 85,067,469)

EN motif: 5′-TTGT/AA-3′

Developmental origin: Male (SRCD14) primordial germline

Insertion #8

chr17 (qC), +strand



L1 subfamily: Tf
Monomers: 3 minus 52bp

TSD: 13 bp
(Chr17: 54,164,875- 54,164,887)

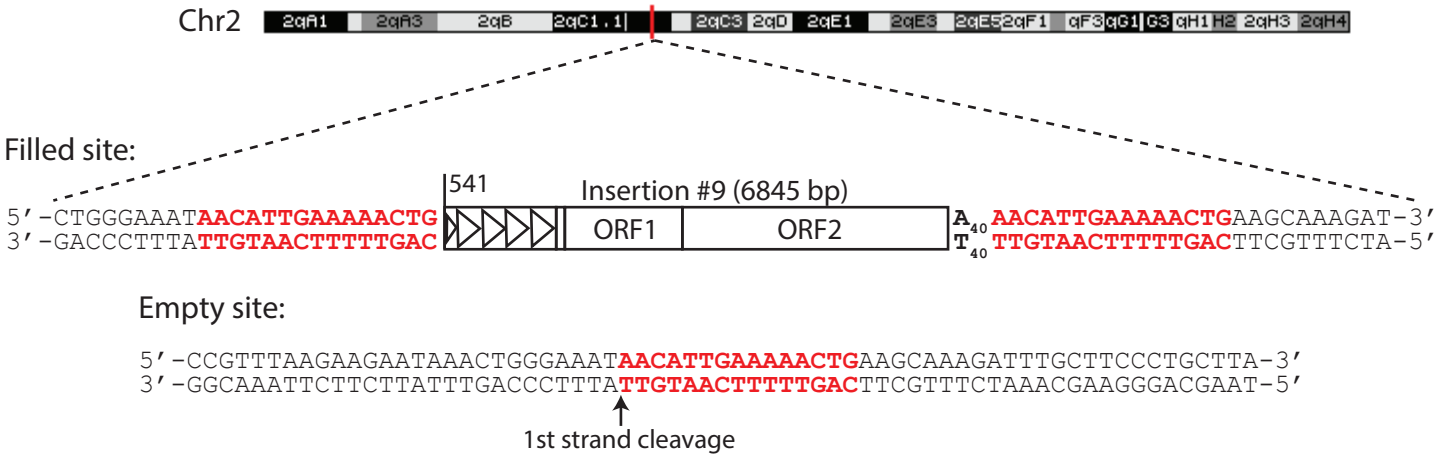
EN motif: 5′-CTTC/AA-3′

Developmental origin: Female (SREF17) early embryo

Supplemental Figure 4 (cont'd)

Insertion #9

chr2 (qC1.3), -strand



L1 subfamily: Tf
Monomers: 4 + 90bp

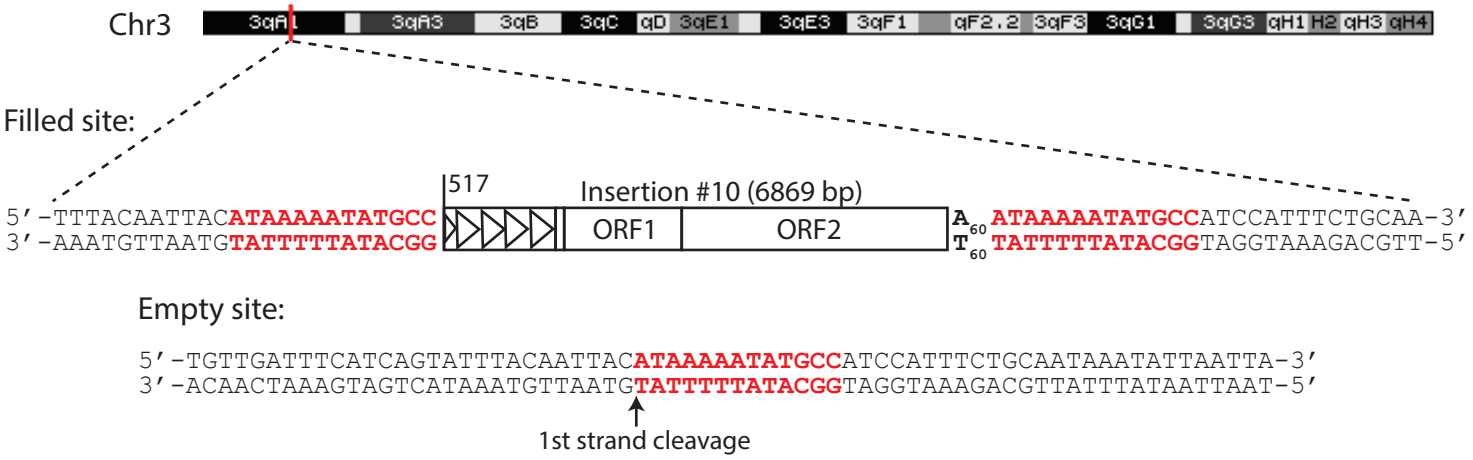
TSD: 15 bp
(Chr2: 65,072,088 - 65,072,102)

EN motif: 5′-TGTT/AT-3′

Developmental origin: Ambiguous, late germline? (Female SRCD11 or Male SREF19)

Insertion #10

chr3 (qA1), -strand



L1 subfamily: Tf
Monomers: 4 + 114bp

TSD: 13 bp
(Chr3: 11,610,299 - 11,610,311)

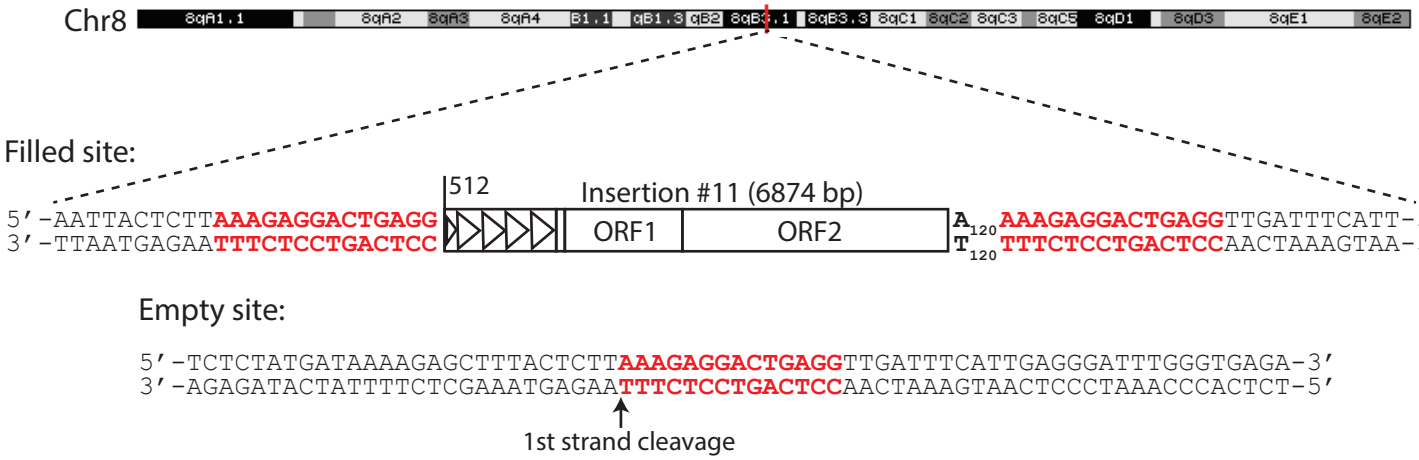
EN motif: 5′-TTAT/GT-3′

Developmental origin: Male early embryo (F2-145)

Supplemental Figure 4 (cont'd)

Insertion #11

chr8 (qB3.1), +strand



L1 subfamily: Tf
Monomers: 4 + 119bp

TSD: 14 bp
(Chr8: 63,990,917-63,990,930)

EN motif: 5′-TCTT/AA-3′

Developmental origin: Female (SRA) early embryo

Supplemental Figure S4. Structures of *de novo* L1 T_F insertions identified in this study.

De novo insertions are annotated as described for polymorphic insertions (Fig. S3), and the deduced developmental timing of each insertion is noted.