```
                          10        20        30        40        50        60        70        80        90       100       110       120
                                    5' TSDs             Pol A Box                                       Pol B Box
Consensus        GATGTATTAAGAAGTAAACCTT--------------------------------------------------------------------------------------------------
F. catus         ......................--------------------------------------------------------------------------------------------------
P. planiceps 1   ......................--------------------------------------------------------------------------------------------------
P. planiceps 2   ......................--------------------------------------------------------------------------------------------------
P. bengalensis 1 ......................--------------------------------------------------------------------------------------------------
P. bengalensis 2 ........................--GGGGCGC-TGGGTGGCGCAGTCGGTTAAGCATCCGACTTCAGCCAGGTCACGATCTCGCGGTCCGTGAGTTCGAACCCCGCGTCGGGCTCTGGGCTGATGGCTCAGA
P. rubiginosus   ......................--------------------------------------------------------------------------------------------------
P.caracal/aurata ......................--------------------------------------------------------------------------------------------------
Bay Cat Lineage  ......................--------------------------------------------------------------------------------------------------
F. nigripes      ........................TAGGGGCGCCTGGGTGGCGCAGTCGGTTAAGCGTCCGACTTCAGCCAGGTCACGATCTCGCGGTCCGTGAGTTCGAGCCCCGCGTCGGGCTCTGGGCTGATGGCTCAGA

                          140       150       160       170       180       190       200       210       220       230       240       250
                                       >>>>>(CT) rich region>>>>
```

```
                                530       540       550       560       570       580       590       600       610       620       630       640
                            Pol A Box                                                                       Pol B Box
Consensus               ------------------------------------------------------------------------------------------------------------------------
F. catus                ------------------------------------------------------------------------------------------------------------------------
P. planiceps 1          ------------------------------------------------------------------------------------------------------------------------
P. planiceps 2          CTGGGTGGCGCAGTCGGTTAAGCGTCCGACTTCAGCCAGGTCA--------------------------CGATCTCGCGGTCCGGGAGTTCGAGCCCCGCGTCGGGCTCTGGGCTGATGGCTCAGAGCC
P. bengalensis 1        ------------------------------------------------------------------------------------------------------------------------
P. bengalensis 2        ------------------------------------------------------------------------------------------------------------------------
P. rubiginosus          ------------------------------------------------------------------------------------------------------------------------
P.caracal/aurata        CTGGGTGGCGCAGTGGGTTAAGCGTCCGACTTCAGCCAGGTCACGATCTCGCAATCTCGCGGGATCTCGCGATCTCGCGGTCCGTGAGTTCGAGCCCCGCGTCAGGCTCTGGGCTGATGGCTCGGAGCC
Bay Cat Lineage         CTGGGTGGGGCAGTCGGTTAAGGGTCCGAATTCAGCCAGGTCA--------------------------CGATCTCGCGGTCCGGGAGTTTGAGCCCCGGCTCAGGCTTTGGGGTGATGGCTTAGCGCC
F. nigripes             ------------------------------------------------------------------------------------------------------------------------

                                660       680       690       700       710       720       730       740       750       760       770       780
                                   >>>>>>>>>>>>>>>>>>(CT) rich region>>>>>>>>>>>>>>>>>>  *****Poly-A/T Tail********* [3' TSDs ]
Consensus               ------------------------------------------------------------------------------------------------------------AAATTTTGCAA
F. catus                ------------------------------------------------------------------------------------------------------------...........
P. planiceps 1          ------------------------------------------------------------------------------------------------------------...........
P. planiceps 2          TGGAGCCTGTTTCCGATTCTGTGTCTCCCTCTCTCTCTGCCCCTCCCCCGTTCATGCTCTGTCTCTCTCTGTCCCCAAAATAAATAAATAAACGT-GAA-----AGAGGTATAAGGG----...........
P. bengalensis 1        ------------------------------------------------------------------------------------------------------------...........
P. bengalensis 2        ------------------------------------------------------------------------------------------------------------...........
P. rubiginosus          ------------------------------------------------------------------------------------------------------------...........
P.caracal/aurata        TGGAGCCTGTTTCCGATTCTGTGTCTCCCTCTCTCTCTGCCCCTCCCCCGTTCATGCTCTGTCTCTCTCTGTCCCAAAATAAATAAATAAACGTTGAAAAAAAAAAAT------------...........
Bay Cat Lineage         TGGAGCCTGTTTCCGATTCTGTGTCTCCCTCTCTCTCTGCCCCTCCCCCGTTCATGGTCTGTCTCTCTCTCTCCCCCAAATAAATAAATAAATGTTAAAAAAAAAAATTATATAAGGGAGG-...........
F. nigripes             ------------------------------------------------------------------------------------------------------------...........
```

Figure S2 Alignment of six unique insertion events occurring at locus 212075 in the rusty spotted cat (*P. rubiginosus*), flat-headed cat (*P. planiceps*), Asian Leopard cat species (*P. bengalensis*), the caracal and black-footed cat (*F. nigripes*) along with synapomorphies of the African golden cat clade (*P. caracal/aurata*), and the Bay Cat lineage. The insertions in the Asian Leopard cat species (*P. bengalensis*) and flat-headed cat (*P. planiceps*) are unfixed. Yellow-highlighted regions mark target site duplications and gray-shaded regions denote the A and B RNA polymerase III recognition sequences.