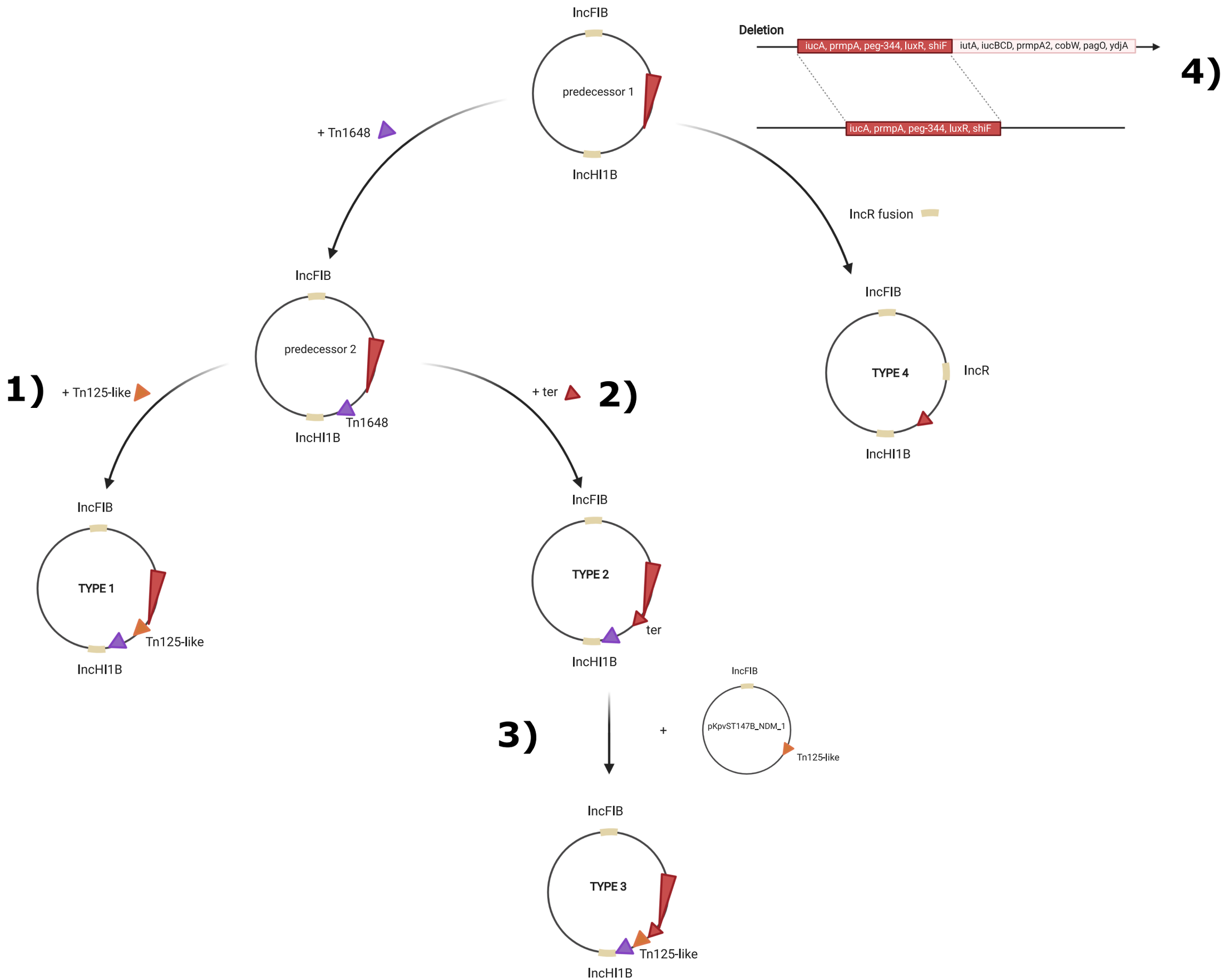

Figure S3: Possible evolutionary pathways that generated 4 distinct types of mosaic plasmids are: (1) the acquisition of Tn-125-like (such as study isolates 1970_kpn, 1971_kpn, 2501_kpn) or (2) tellurium resistance gene cluster (such as pKpvST147B_virulence in KpvST147B_SE1_1_NDM strain) by predecessor 2 following the acquisition by predecessor 1 of region containing Tn1548; (3) acquisition of Tn125-like form IncFIB plasmid by type 2 plasmid (such as study isolates 1659_kpn, 2471_kpn, 2512_kpn, 2566_kpn); (4) deletion the part of the region containing genes associated with hypervirulence (iutA, iucBCD, $_{p}$rmpA2, cobW, pagO, ydjA) and fusion with IncR plasmid (phvKpST395_2024 in such as study isolate 2024_kpn).