Figure. 1 Solanum dasyphyllum-Repeat Annotation All/repeat Solanum insanum All/repeat/mobile element All/repeat/mobile\_element/Class\_I Solanum aethiopicum All/repeat/mobile\_element/Class\_I/LINE All/repeat/mobile\_element/Class\_I/LTR Solanum\_macrocarpon-All/repeat/mobile\_element/Class\_I/LTR/Ty1\_copia All/repeat/mobile\_element/Class\_I/LTR/Ty1\_copia/Ale All/repeat/mobile\_element/Class\_I/LTR/Ty1\_copia/Alesia Solanum anguivi-All/repeat/mobile\_element/Class\_I/LTR/Ty1\_copia/Angela All/repeat/mobile\_element/Class\_I/LTR/Ty1\_copia/Bianca Solanum\_trilobatum-All/repeat/mobile\_element/Class\_I/LTR/Ty1\_copia/Ikeros All/repeat/mobile\_element/Class\_I/LTR/Ty1\_copia/Ivana Species Name All/repeat/mobile\_element/Class\_I/LTR/Ty1\_copia/TAR Solanum\_incanum\_Kenya-All/repeat/mobile\_element/Class\_I/LTR/Ty1\_copia/Tork All/repeat/mobile element/Class I/LTR/Ty3 gypsy Solanum\_melongena All/repeat/mobile\_element/Class\_I/LTR/Ty3\_gypsy/chromovirus All/repeat/mobile\_element/Class\_I/LTR/Ty3\_gypsy/chromovirus/CRM All/repeat/mobile\_element/Class\_I/LTR/Ty3\_gypsy/chromovirus/Galadriel Solanum violaceum All/repeat/mobile\_element/Class\_I/LTR/Ty3\_gypsy/chromovirus/Reina All/repeat/mobile\_element/Class\_I/LTR/Ty3\_gypsy/chromovirus/Tekay Solanum incanum BFaso-All/repeat/mobile\_element/Class\_I/LTR/Ty3\_gypsy/non-chromovirus/OTA/Athila All/repeat/mobile\_element/Class\_I/LTR/Ty3\_gypsy/non-chromovirus/OTA/Tat/Ogre All/repeat/mobile element/Class I/pararetrovirus Solanum supinum All/repeat/mobile\_element/Class\_II/Subclass\_1/TIR/EnSpm\_CACTA All/repeat/mobile\_element/Class\_II/Subclass\_1/TIR/hAT Solanum campylacanthum-All/repeat/mobile\_element/Class\_II/Subclass\_1/TIR/MuDR\_Mutator All/repeat/mobile\_element/Class\_II/Subclass\_1/TIR/PIF\_Harbinger Solanum lichtensteinii-All/repeat/mobile\_element/Class\_II/Subclass\_2/Helitron All/repeat/rDNA/45S\_rDNA All/repeat/rDNA/45S\_rDNA/18S\_rDNA Solanum linnaeanum All/repeat/rDNA/45S\_rDNA/25S\_rDNA All/repeat/rDNA/5S rDNA Solanum cerasiferum-All/repeat/satellite Other 10 40 50 Genomic proportion of total repeat