





**Supplement Figure S1.** An example of an SSR profile of four accessions of cultivated and weedy types *Perilla* crop (the order is cultivated var. *frutescens*, weedy var. *frutescens*, cultivated var. *crispa*, weedy var. *crispa*) using 200 newly developed SSR primer sets. The two pictures are examples of SSR profiles for 120 of 200 primer sets.