a. parental haplotype   ATAAATATTACTCGTCGTCGTTGTGTATACTGCAGT

b. SNP   ATAAATATTACTCGTC**A**TCGTTGTGTATACTGCAGT

c. insertion   ATAAATATTACTCGTC**TC**ATCGTTGTGTATACTGCAGT

d. deletion   ATAAATATTACTCGTCGTTGTGTATACTGCAGT

e. inversion   ATAAATATTACTCGTC**CGAG**TTGTGTATACTGCAGT

f. STR expansion   ATAAATATTACTCGTCGTCGT**CGT**TGTGTATACTGCAGT

g. STR contraction   ATAAATATTACTCGTCGT---TGTGTATACTGCAGT

h. tandem duplication   ATAAATATTACTCGTCGTCGTTG**CGTCGTCGTTG**TGTATACTGCAGT