

Figure S1. Complex indel detected in sample 1 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) Validation by Sanger sequencing.

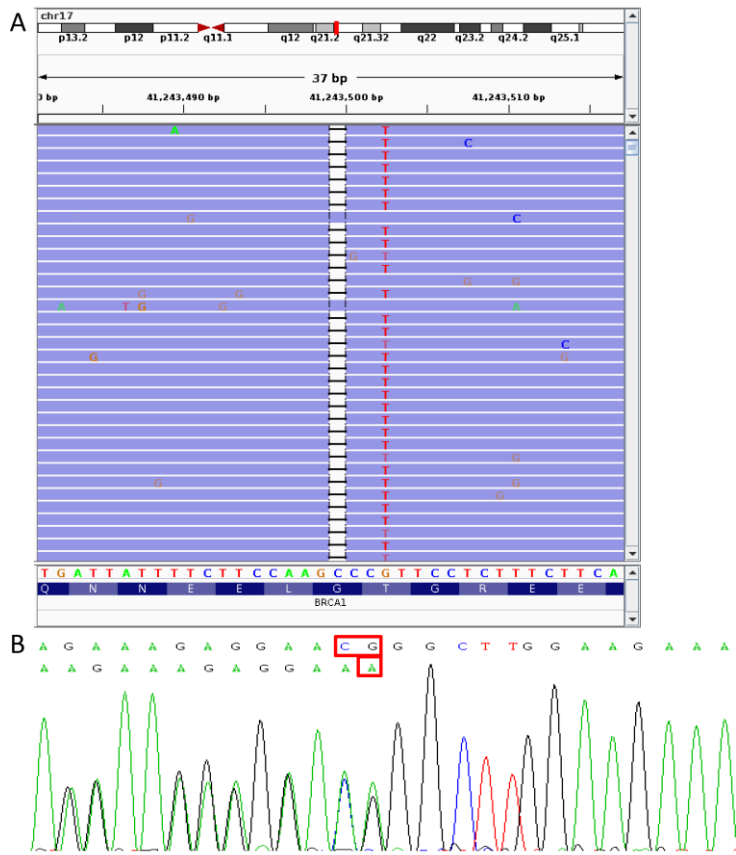


Figure S2. Complex indel detected in sample 2 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) Validation by Sanger sequencing.

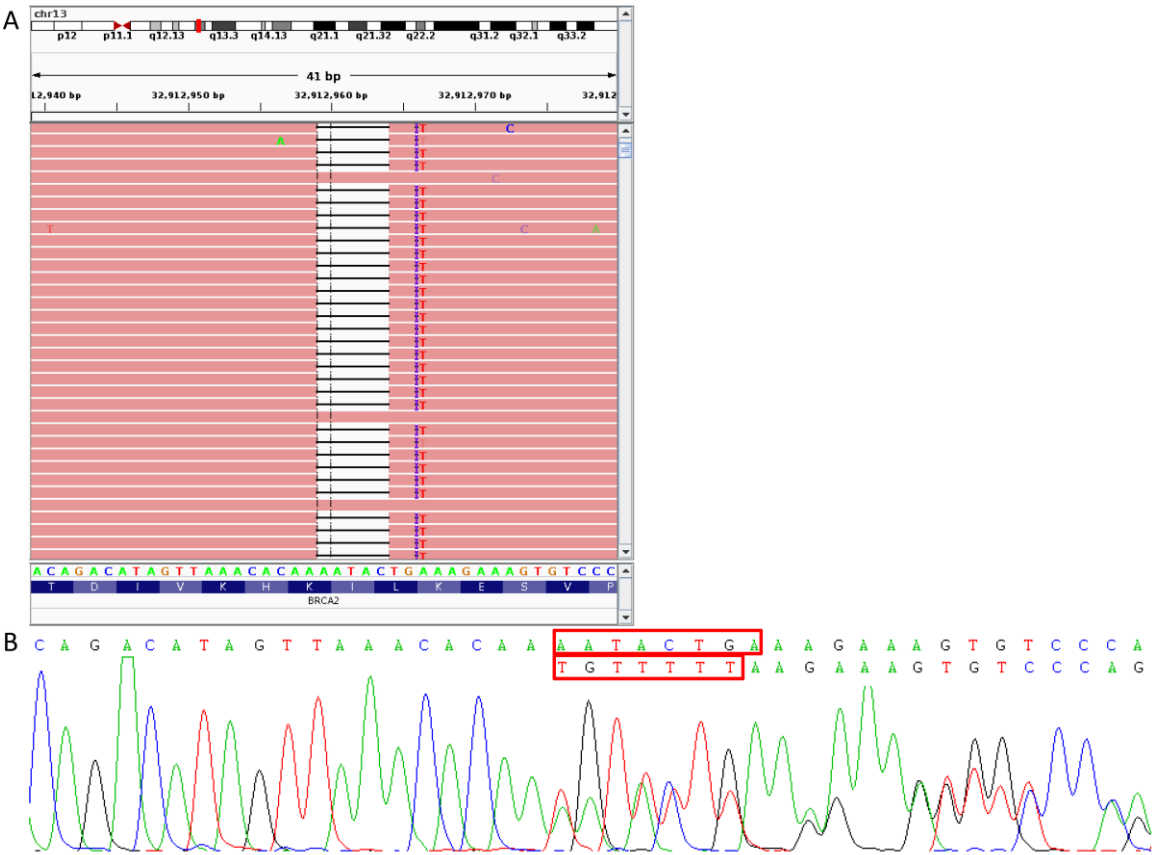
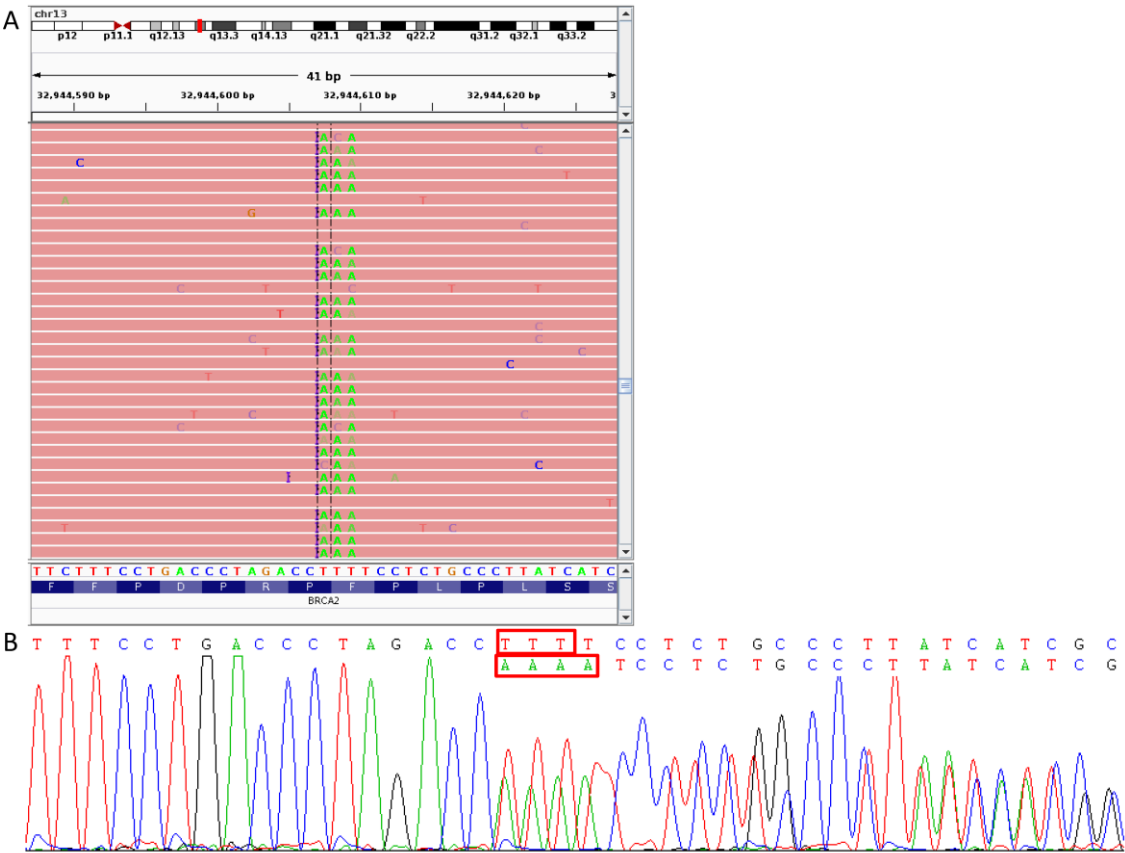


Figure S3. Complex indel detected in sample 3 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) Validation by Sanger sequencing.



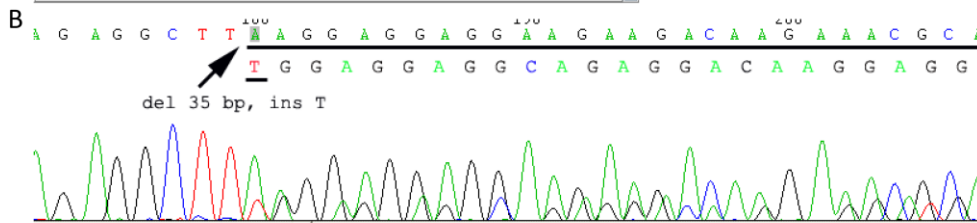


Figure S5. Complex indel detected in sample 5 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) Validation by Sanger sequencing.

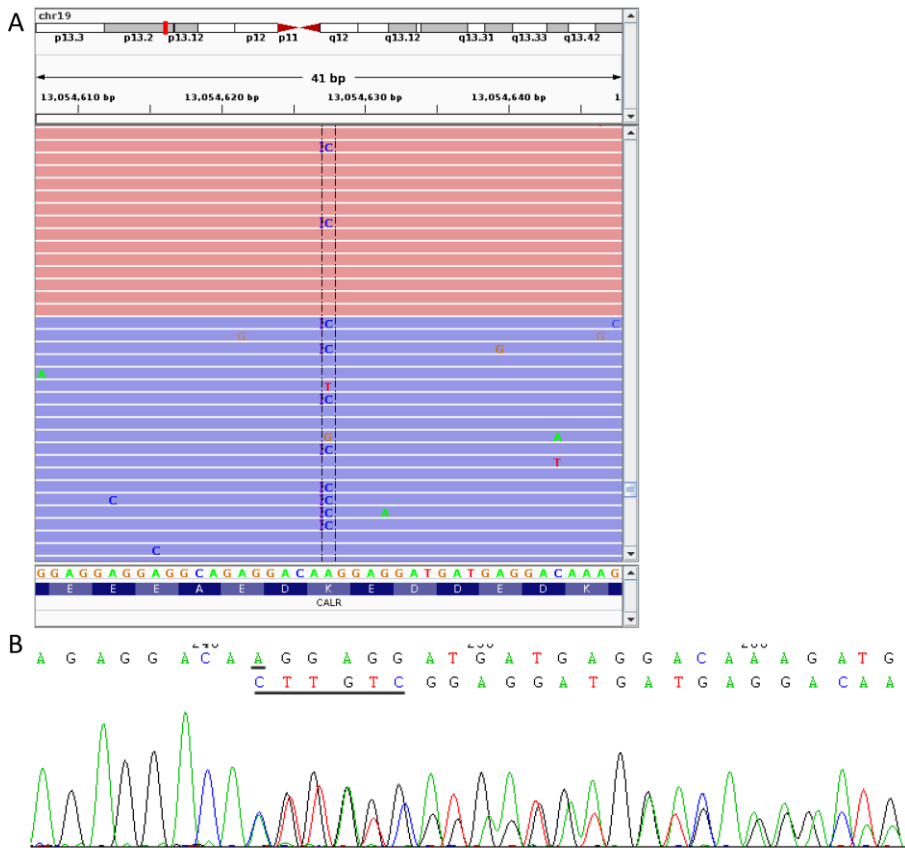


Figure S6. Complex indel detected in sample 6 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) Validation by Sanger sequencing.

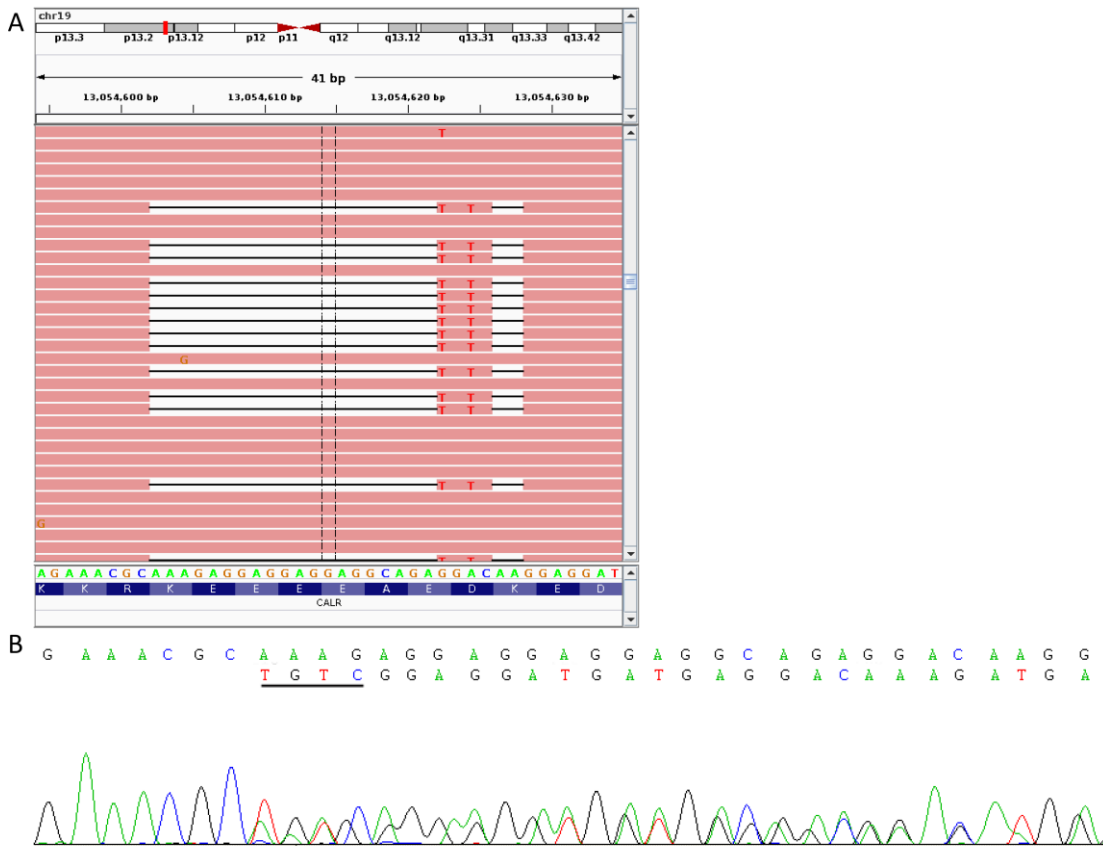


Figure S7. Complex indel detected in sample 7 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) Validation by conventional PCR fragment analysis. Wild-type (WT) and mutant (asterisk) fragments were shown.

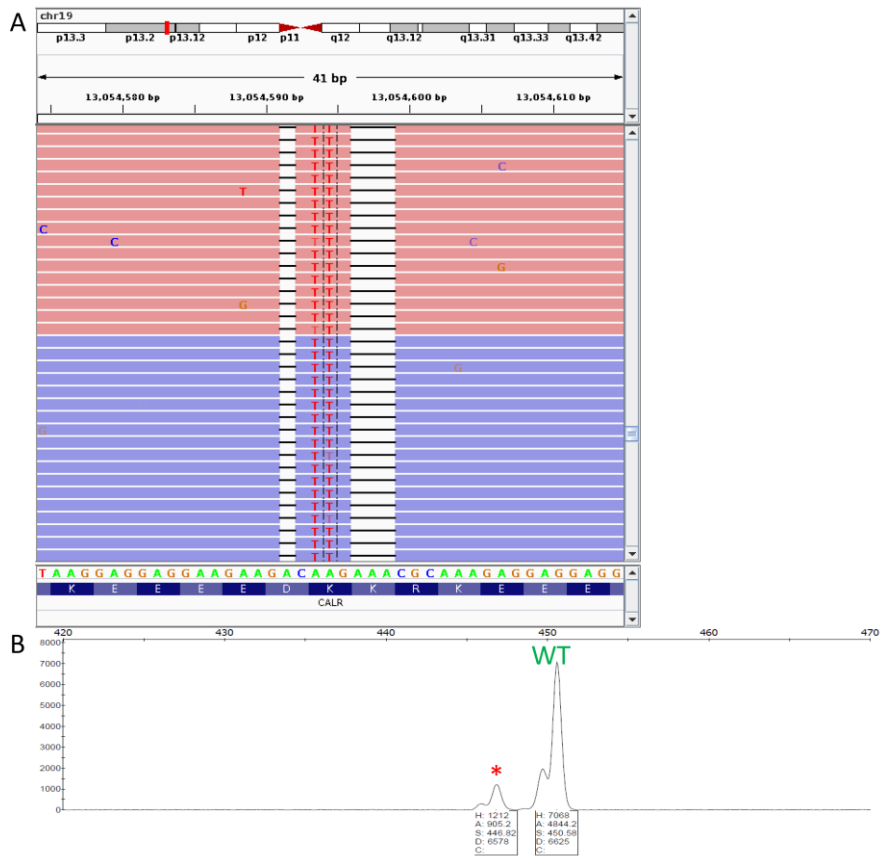


Figure S8. Complex indel detected in sample 8 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) Validation by Sanger sequencing.

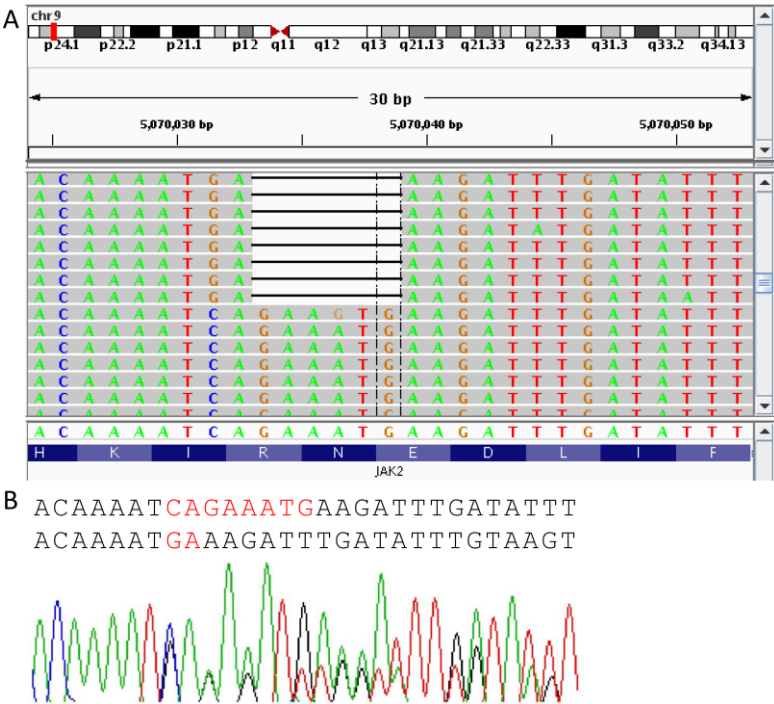


Figure S9. Complex indel detected in sample 9 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) IGV screenshot of representative validation NGS reads.

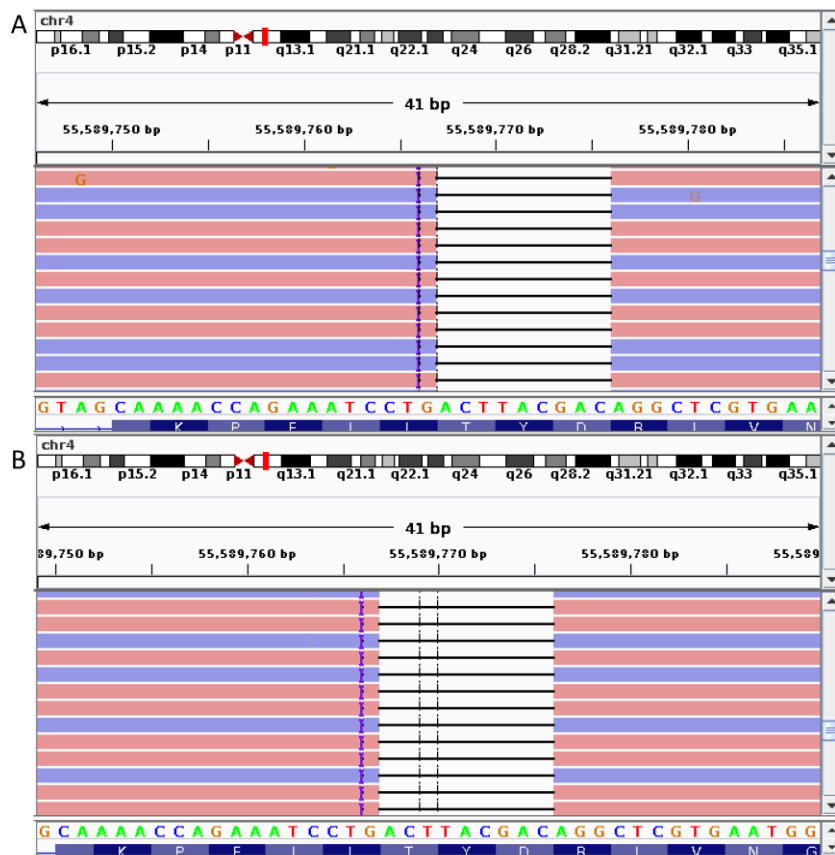


Figure S10. Complex indels detected in sample 10 and orthogonal validation. (A-D) IGV screenshot of representative original NGS reads of four complex indels c.1248_1256delinsTTTCCG, c.1249_1258delinsGGATGGAAC, c.1250_1258delinsAACCTC and c.1251_1258delinsCTCCT, respectively. (E-H) IGV screenshot of representative validation NGS reads for the corresponding complex indels shown in (A-D).

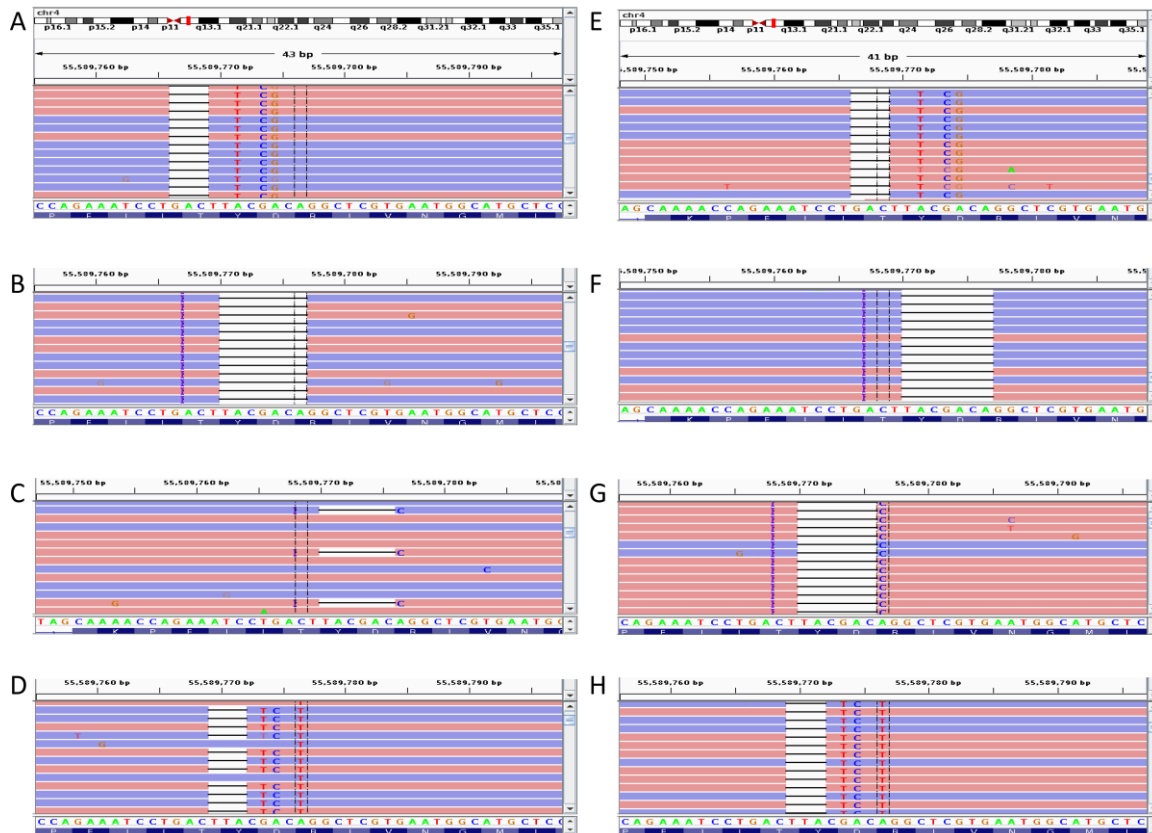


Figure S11. Complex indels detected in sample 11 and orthogonal validation.

(A-B) IGV screenshot of representative original NGS reads of two complex indels c.1250_1256delinsT and c.1251_1257delinsAACA, respectively. (C) Wild-type (WT) and mutant (single asterisk for c.1250_1256delinsT, double asterisk for c.1251_1257delinsAACA) fragments were shown.

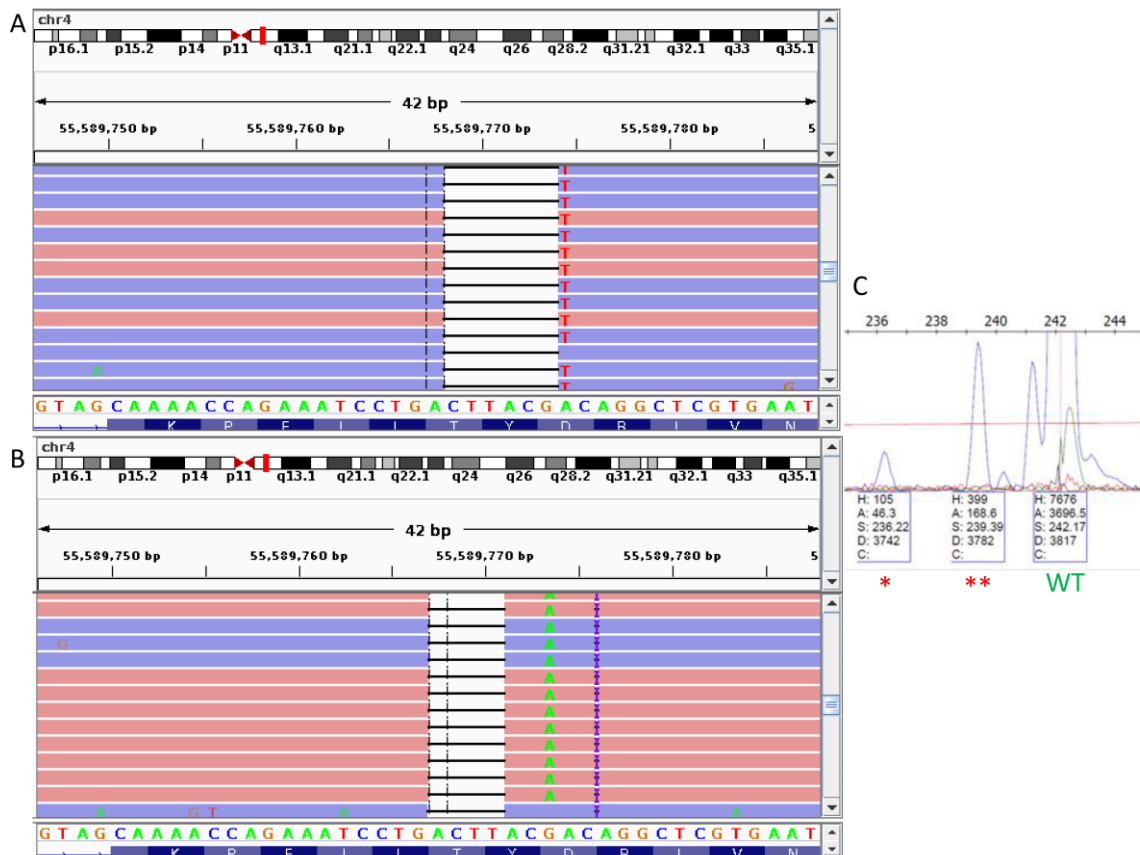


Figure S12. Complex indel detected in sample 12 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) IGV screenshot of representative validation NGS reads.

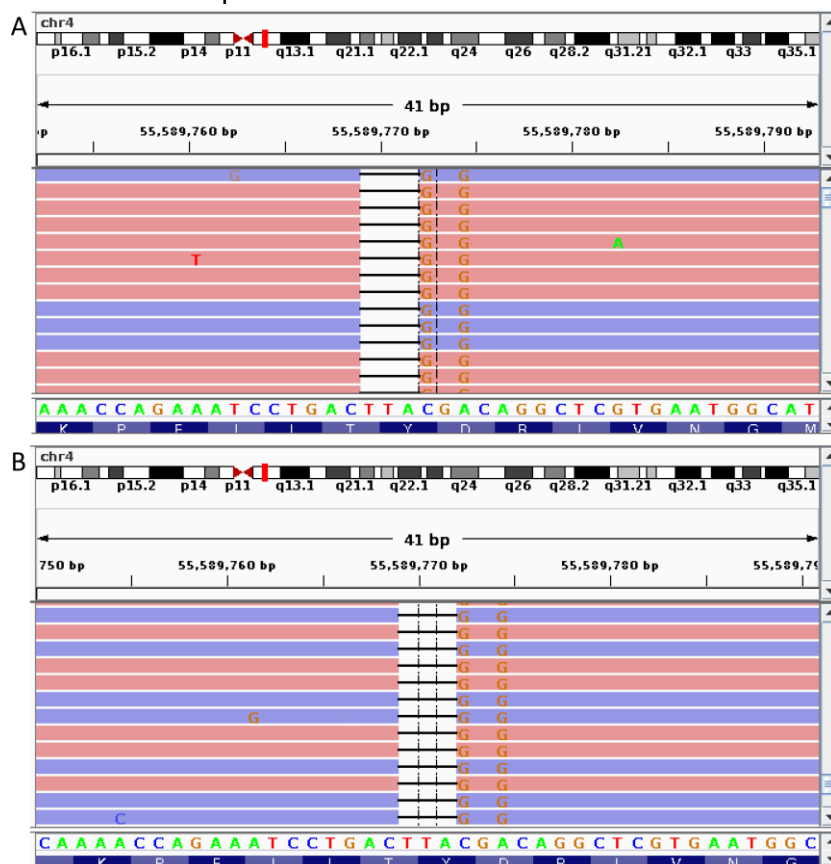


Figure S13. Complex indel detected in sample 13 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) IGV screenshot of representative validation NGS reads.

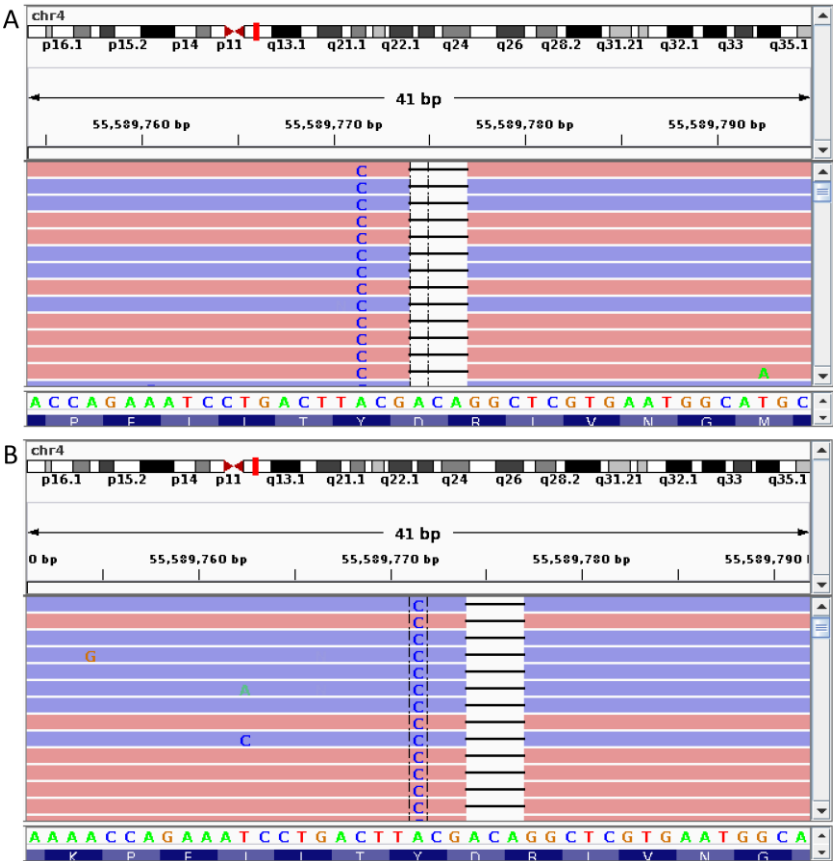


Figure S14. Complex indel detected in sample 14 and orthogonal validation. (A) IGV screenshot of representative original NGS reads. (B) IGV screenshot of representative validation NGS reads.

