

Supplementary material

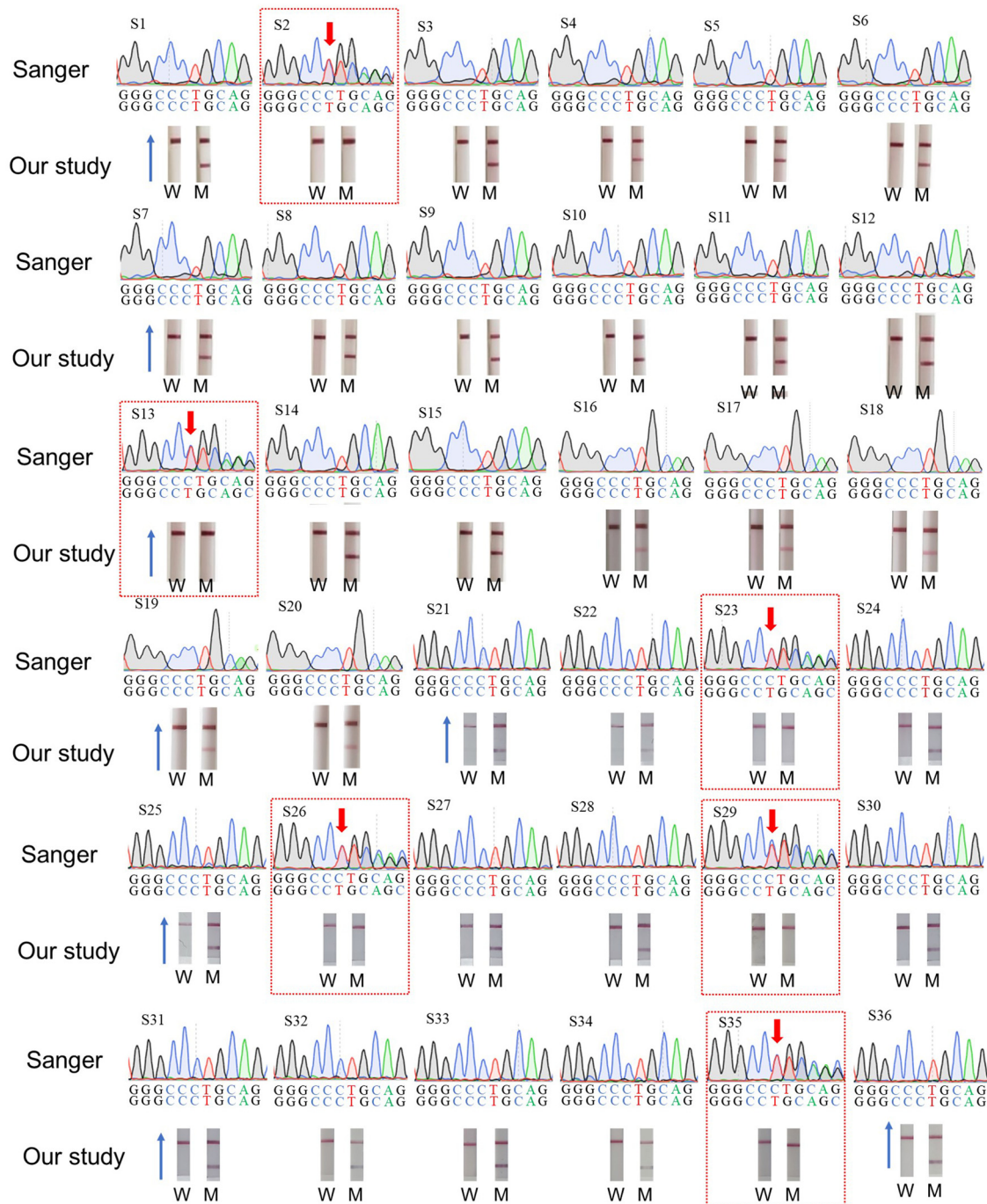


Figure S1: Analysis of clinical samples using CRISPR-Cas13a and Sanger sequencing methods. W indicates the LFD using wild-type crRNA; M indicates the LFD using mutant crRNA. Red arrows mark the c.235delC mutation site.

Name	The nucleotide sequences (5'–3')
Wild-type DNA template	AGCCAGGCTGCAAGAAGCTGTGCTACGATCACTACTTCCCCATCTCCACATCCGGCTATGGGCCCTGCAG CTGATCTTCGTGTCCACGCCAGCGCTCCTAGTGCCATGCACGTGGCCTACCGGAGACATGAGAAGAAGA GGAAGTTCATCAAGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAA
Mutant DNA template	AGCCAGGCTGCAAGAAGCTGTGCTACGATCACTACTTCCCCATCTCCACATCCGGCTATGGGCCTGCAGCT GATCTTCGTGTCCACGCCAGCGCTCCTAGTGCCATGCACGTGGCCTACCGGAGACATGAGAAGAAGAGGA AGTTCATCAAGGGGGAGATAAAGAGTGAATTTAAGGACATCGAGGAGATCAA
RAA forward primer-1 (F1)	AATTCTAATACGACTCACTATAGGGCTACGATCACTACTTCCCCATCTCCACA
RAA forward primer-2 (F2)	AATTCTAATACGACTCACTATAGGGCTACGATCACTACTTCCCCATCTCCACATCC
RAA reverse primer-1 (R1)	GTCCTTAAATTCACTCTTTATCTCCCCCTTGA
RAA reverse primer 2 (R2)	CGATGTCCTTAAATTCACTCTTTATCTCCC
RAA reverse primer-3 (R3)	CCTCGATGTCCTTAAATTCACTCTTTATCTCC
Wild-type crRNA-1	GGGAUUUAGACUACCCCCAAAAACGAAGGGGACUAAAACAAGAUACGUCGAGGGCCCAUAGCCGGA
Mutant crRNA-1	GGGAUUUAGACUACCCCCAAAAACGAAGGGGACUAAAACGAAGAUACGUCGAGGGCCCAUAGCCGGA
Wild-type crRNA-2	GGGAUUUAGACUACCCCCAAAAACGAAGGGGACUAAAACGACACGAAGAUACGUCGAGGGCCCAUA
Mutant crRNA-2	GGGAUUUAGACUACCCCCAAAAACGAAGGGGACUAAAACGACACGAAGAUACGUCGAGGGCCCAUA
Wild-type crRNA-3	GGGAUUUAGACUACCCCCAAAAACGAAGGGGACUAAAACAGCUGCAGGGCCCAUAGCCGGAUGUGGG
Mutant crRNA- 3	GGGAUUUAGACUACCCCCAAAAACGAAGGGGACUAAAACAGCUGCAGGGCCCAUAGCCGGAUGUGGGA
ssRNA-FB reporter	5'-Biotin-TrUrUrUrUrUrUrUrUrUrUrUrUrUrUrUrUrC-FAM-3'

RAA primers, crRNA, reporter RNA-2, wild DNA template plasmid and mutant DNA template plasmid were synthesized by Sangon Biotech (Shanghai) Co., Ltd and the details of nucleic acid sequences are shown in Table 1.