Electronic Supplementary Material (ESI) for Analytical Methods.

Table S1. The sequences used in the reaction of PER and CRISPR/Cas14a

Name	Sequence (5'-3')
EGFR L858R	GATTTTGGGCGGGCCAAACTG
the hairpin H1	AATAAGAGATCAGTTTGGCCCGCCCAAAATCATCTCTTATT
the hairpin H2	ATCTCTTATTGGGCCTTTTGGCCCAATAAGAGATAATAAGAGAT
the cleaner sequence	CCCCGAAAGTGGCCTCGGGCCTTTTGGCCCGAGGCCACTTTCG
FAM-ssDNA-BHQ	FAM-TTATTTTATT-BHQ
activator	ATCTCTTATT
tracrRNA	CUUCACUGAUAAAGUGGAGAACCGCUUCACCAAAAGCUGUCC CUUAGGGGAUUAGAACUUGAGUGAAGGUGGGCUGCUUGCAUC AGCCUAAUGUCGAGAAGUGCUUUCUUCGGAAAGUAACCCUCG AAACAAAUUCAUUUGGAAUGCAAC
crRNA	GAAUGAAGGAAUGCAACUAAUAAGAGAU
ssDNA-MB	SH-$(CH_2)_6$-TTTTTTTTTTTTTTTTTTTT-MB

Table S2. The sequences of mismatch DNA

name	Sequence (5'-3')
ctDNA EGFR wild	GAT TTT GGG CTG GCC AAA CTG
Single-base-mismatched DNA (SB)	GAT TTT GGG CGG GCC A**G**A CTG
Double-base-mismatched DNA (DB)	GAT TTT **T**GG CGG GCC A**G**A CTG
Three-base-mismatched DNA (TB)	GAT TTT **T**GG C**T**G GCC A**G**A CTG
Non-complementary DNA (NC)	AGCGCGATAATATAAGCGACA

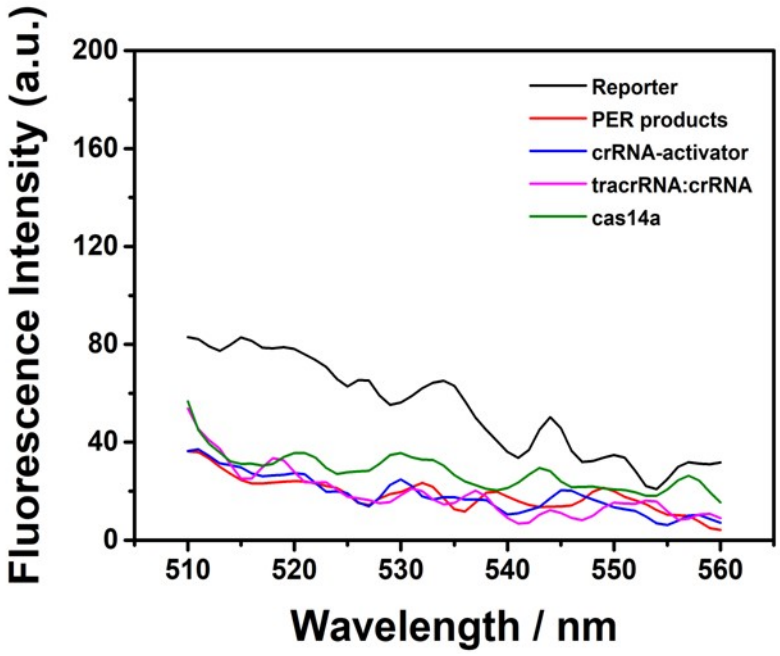

Figure S1. Fluorescence spectra of the reporter, the PER products, the crRNA-activator, the tracrRNA: crRNA and the cas14a.