

SUPPORTING INFORMATION

Table S1. Nucleic acid sequence used in the experiments

| Title | Sequence (5' to 3') |
|----------------|--|
| HP-1 | UUG CUU AUC AGA CUG AUG UUG AUG UUC |
| HP-2 | UAG CUU AUC AGA CUG AUG UAG UAC AAG |
| HP-3 | UAG CAU AUC AGA CUG AUG UUG AUG UUC |
| L1 | TTG ATG TTC TAA TAC GAC TCA CTA TAG GG |
| L2 | ATT ATG CTG AGT GAT ATC CC |
| Reporter-probe | FAM-TTATT-BHQ |
| crRNA | UAA UUU CUA CUC UUG UAG AU |
| dsDNA | UAA UUU CUA CUC UUG UAG AUG UCG AGC GUC GAU GCU AGC |
| M1 | UAA GUC UGA UGU UGU GUG AGGU |
| M2 | UAU GUC UGA UGU UGU GUG AGGU |
| miRNA-21 | UAG CUU AUC AGA CUG AUG UUG A |
| miRNA-34a | UGG CAG UGU CUU AGC UGG UUGU |
| miRNA-155 | UGA GUC UGA UGU UGU GUG AGGU |
| miRNA-146a | UGA GAA CUG AAU UCC AUG GGUU |

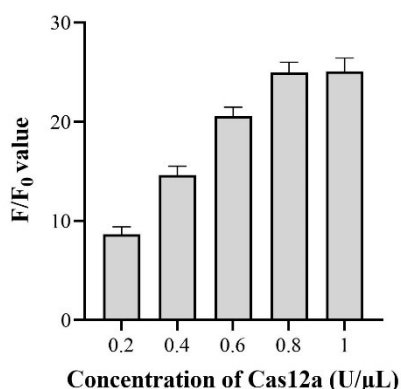


Figure S1: Fluorescence intensity ratio of the method when detecting target miRNA with different concentration of Cas12a protein.