|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| Cas9 enzyme | 1U | 1U | 1U |
| 10X Cas9 buffer | 2 μl | 2 μl | 2 μl |
| gRNA | 50 ng(sample gRNA) | 50 ng(standard gRNA1(g1)) | 50 ng (standard gRNA2(g2)) |
| ddH2O | Xμl | Xμl | Xμl |
| Digested dsDNA | 50 ng | 50 ng( standard DNA) | 50 ng( standard DNA) |
| Total | 20 μl | 20 μl | 20 μl |

**Table S4. In vitro digestion system.**

After thorough mixing, the reaction was carried out at 37 ° C for 0.5 h, and at 65 ° C for 5 min, and the results of the enzyme digestion were analyzed by 1% agarose gel electrophoresis.