

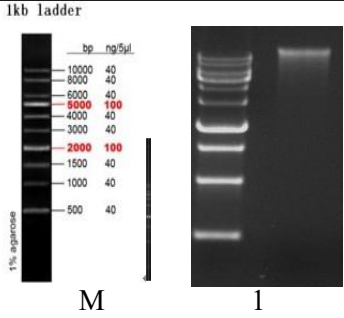
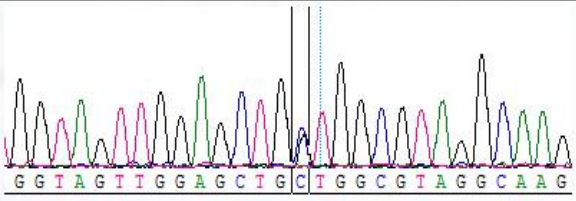
# CERTIFICATE OF ANALYSIS

## KRAS p.G12A Reference Standard

### Product information

|                     |  |
|---------------------|--|
| Name                | KRAS p.G12A Reference Standard         |
| Catalog No.         | CBP10296                               |
| Lot No.             | GBD19315651                            |
| Format              | Genomic DNA                            |
| DNA Change          | c.35G>C                                |
| AA Change           | p.G12A                                 |
| Mutation Type       | Substitution - Missense                |
| Zygoty              | Heterozygous                           |
| Allelic Frequency   | 53%                                    |
| Transcript          | ENST00000311936                        |
| Copy Number         | 3                                      |
| Ploidy              | 2.91                                   |
| Buffer              | Tris-EDTA                              |
| Storage Conditions  | -20°C                                  |
| Date of Manufacture | May-11-2021                            |
| Expiry              | 36 months from the date of manufacture |

### Quality Control

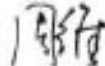
| Test Items                           | Standard          | Results   | Passed |
|--------------------------------------|-------------------|---|--------|
| Quantity                             | 1ug/vial*1vial    | 1ug/vial*1vial  | √      |
| Concentration                        | Qubit 3.0         | 40 ng/uL±10%  | √      |
| OD <sub>260</sub> /OD <sub>280</sub> | 1.7~2.0           | 1.86  | √      |
| DNA electrophoresis                  | No Degradation    |  <p>1kb ladder</p> <p>M: Marker<br/>I: KRAS p.G12A Reference Standard</p> | √      |
| Genotype                             | Sanger Sequencing |   | √      |

|     |       |       |   |
|-----|-------|-------|---|
| %AF | DdPCR | 53.7% | √ |
|-----|-------|-------|---|

**Caution:**

For research use only.

If you have any questions about the Certificate of Analysis, please contact us.

Certified by:  Date:\*\*\*\*

 Date:\*\*\*\*