

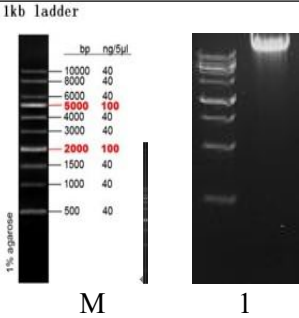
# CERTIFICATE OF ANALYSIS

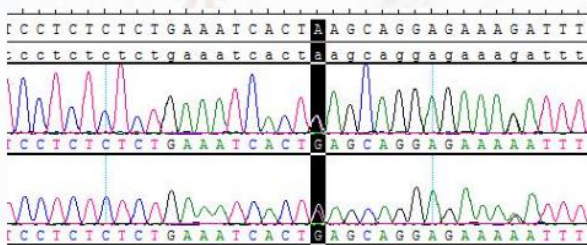
## PIK3CA p.E545K Reference Standard

### Product information

|                     |  |
|---------------------|--|
| Name                | PIK3CA p.E545K Reference Standard      |
| Catalog No.         | CBP10322                               |
| Lot No.             | GBD44897293                            |
| Format              | Genomic DNA                            |
| DNA Change          | c.1633G>A                              |
| AA Change           | p.E545K                                |
| Mutation Type       | Substitution - Missense                |
| Zygosity            | Heterozygous                           |
| Allelic Frequency   | 50%                                    |
| Transcript          | NM_006218.1                            |
| Copy Number         | 2                                      |
| Ploidy              | 1.96                                   |
| Buffer              | Tris-EDTA                              |
| Storage Conditions  | -20°C                                  |
| Date of Manufacture | Jul.-06-2020                           |
| 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        | 1.90   | √      |
| DNA electrophoresis                  | No Degradation |  <p>           1kb ladder<br/>           bp ng/5ul<br/>           10000 40<br/>           8000 40<br/>           6000 40<br/>           4000 40<br/>           3000 40<br/>           2000 100<br/>           1500 40<br/>           1000 40<br/>           500 40<br/>           1% agarose<br/>           M 1<br/>           M: Marker<br/>           1: PIK3CA p.E545K Reference Standard         </p> | √      |

|          |                   |  |   |
|----------|-------------------|--|---|
| Genotype | Sanger Sequencing |  | √ |
| %AF      | 50%               | 49.93% by DdPCR detection  | √ |

**Caution:**

For research use only.

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

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

 Date:\*\*\*\*