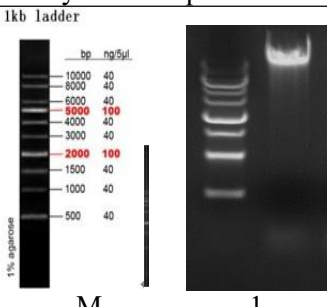
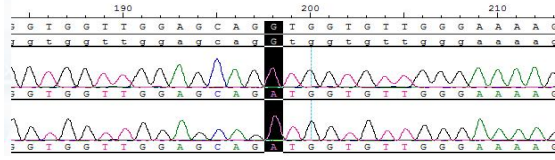


## CERTIFICATE OF ANALYSIS

### Product information

Name	AI-Edigene® NRAS p.G12D Reference Standard Plus
Catalog No.	CBP10470
Lot No.	CBFA22091507
Format	Genomic DNA
DNA Change	c.35G>A
AA Change	p.G12D
Mutation Type	Substitution - Missense
Zygosity	Homozygous
%AF	100%
Transcript	ENST00000369535
Chr position(GRCh37)	chr1:115258747
Copy Number	2
Ploidy	1.98
Buffer	Tris-EDTA
Storage Conditions	4°C
Date of Manufacture	Sep.-15-2022
Expiry	36 months from the date of manufacture

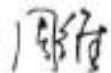
### Quality Control

Test Items	Standard	Results	Passed
Quantity	1.00 µg/vial*3 vials	1.00 µg/vial*3 vials	√
Concentration	40.00 ng/uL±10%	41.80 ng/uL by Qubit 3.0 detection	√
OD <sub>260</sub> /OD <sub>280</sub>	1.7~2.1	1.89 by Nanodrop detection	√
DNA electrophoresis	No Degradation	 <p>           1kb ladder            bp ng/5µl            10000 40            8000 40            6000 40            4000 100            3000 40            2000 100            1500 40            1000 40            500 40            1% agarose            M 1            M: Marker            1: AI-Edigene® NRAS p.G12D Reference Standard Plus         </p>	√
Genotype	Positive	 <p>           190 200 210            3 G T G G T T G G A G C A G G T G G T G T T G G G A A A A G            1 G T G G T T G G A G C A G G T G G T G T T G G G A A A A G            3 G T G G T T G G A G C A G G T G G T G T T G G G A A A A G            1 G T G G T T G G A G C A G G T G G T G T T G G G A A A A G         </p> <p>By sanger sequencing</p>	√
%AF	100.00%	100.00% 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:\*\*\*\*