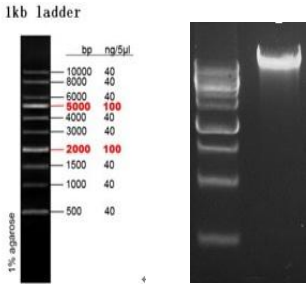
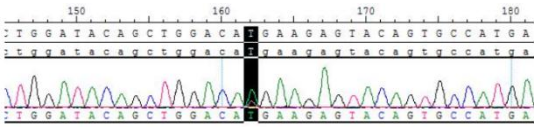


## CERTIFICATE OF ANALYSIS

### Product information

Name	NRAS p.Q61H Reference Standard
Catalog No.	CBP10312
Lot No.	CBFA23082410X
Format	Genomic DNA
DNA Change	c.183A>T
AA Change	p.Q61H
Mutation Type	Substitution - Missense
Zygoty	Heterozygous
%AF	66.67%
Transcript	ENST00000369535
Chr position(GRCh37)	chr1:115256528
Copy Number	3
Ploidy	2.17
Buffer	Tris-EDTA
Storage Conditions	4°C
Date of Manufacture	2023/08/24
Expiry	36 months from the date of manufacture


### Quality Control

Test Items	Standard	Results	Passed
Quantity	1.00 µg/vial*2 vials	1.00 µg/vial*2 vials	√
Concentration	40.00 ng/uL±10%	41.10 ng/uL by Qubit 3.0 detection	√
OD <sub>260</sub> /OD <sub>280</sub>	1.7~2.1	1.97 by Nanodrop detection	√
DNA electrophoresis	No Degradation	 <p>1kb ladder</p> <p>bp ng/5µl</p> <p>10000 40</p> <p>8000 40</p> <p>6000 40</p> <p>5000 100</p> <p>4000 40</p> <p>3000 40</p> <p>2000 100</p> <p>1500 40</p> <p>1000 40</p> <p>500 40</p> <p>1% agarose</p> <p>M 1</p> <p>M: Marker</p> <p>1: NRAS p.Q61H Reference Standard</p>	√
Genotype	Positive	 <p>150 160 170 180</p> <p>: TGGATACAGCTGGACA G AAGAGTACAGTGCATGA</p> <p>: TGGATACAGCTGGACA G AAGAGTACAGTGCATGA</p> <p>: TGGATACAGCTGGACA G AAGAGTACAGTGCATGA</p> <p>By sanger sequencing</p>	√

**Caution:**

For research use only.

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

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

 Date:\*\*\*\*