

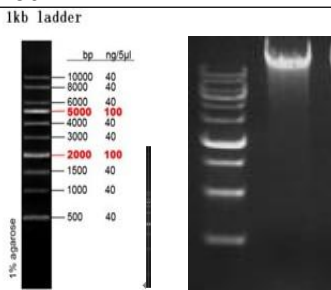
## CERTIFICATE OF ANALYSIS

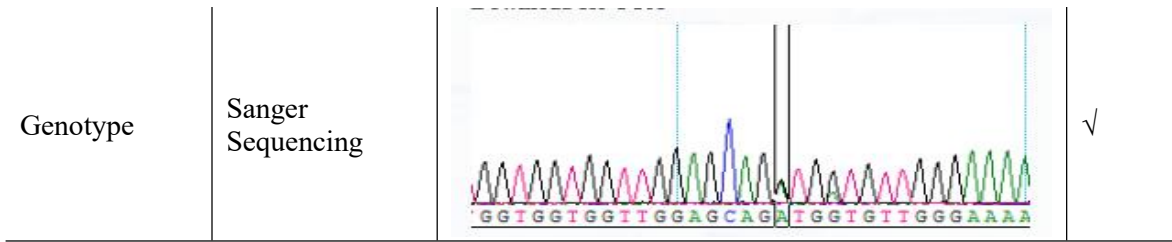
### NRAS p.G12D Reference Standard

#### Product information

Name	NRAS p.G12D Reference Standard
Catalog No.	CBP10314
Lot No.	CGD52143524
Format	Genomic DNA
DNA Change	c.35G>A
AA Change	p.G12D
Mutation Type	Substitution - Missense
Zygoty	Heterozygous
Allelic Frequency	66.67%
Transcript	ENST00000369535
Copy Number	3
Ploidy	2.13
Buffer	Tris-EDTA
Storage Conditions	-20°C
Date of Manufacture	May-09-2019
Expiry	36 months from the date of manufacture

#### Quality Control

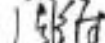
Test Items	Standard	Results	Passed
Quantity	1ug/vial*17vials	1ug/vial*17vials	√
Concentration	Qubit 3.0	40 ng/uL±10%	√
OD <sub>260</sub> /OD <sub>280</sub>	1.7~2.0	1.86	√
DNA electrophoresis	No Degradation	 <p>1kb ladder</p> <p>M: Marker 1: NRAS p.G12D Reference Standard</p>	√



**Caution:**

For research use only.

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

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

 Date:\*\*\*\*