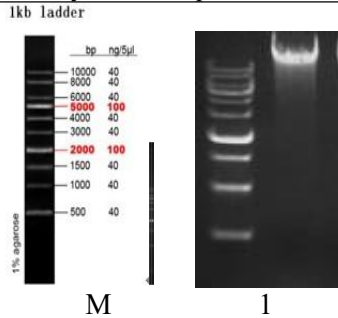
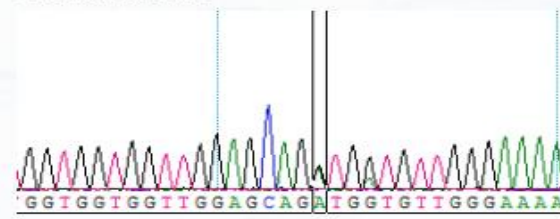


CERTIFICATE OF ANALYSIS

Product information

Name	NRAS p.G12D Reference Standard
Catalog No.	CBP10314
Lot No.	CBFA22112503
Format	Genomic DNA
DNA Change	c.35G>A
AA Change	p.G12D
Mutation Type	Substitution - Missense
Zygoty	Heterozygous
%AF	66.67%
Transcript	ENST00000369535
Chr position(GRCh37)	chr1:115258747
Copy Number	3
Ploidy	2.13
Buffer	Tris-EDTA
Storage Conditions	4°C
Date of Manufacture	Nov.-25-2022
Expiry	36 months from the date of manufacture

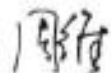
Quality Control


Test Items	Standard	Results	Passed
Quantity	1.00 µg/vial*1 vial	1.00 µg/vial*1 vial	√
Concentration	40.00 ng/uL±10%	42.70 ng/uL by Qubit 3.0 detection	√
OD ₂₆₀ /OD ₂₈₀	1.7~2.1	1.86 by Nanodrop detection	√
DNA electrophoresis	No Degradation	 <p>1kb ladder</p> <p>M: Marker 1: NRAS p.G12D Reference Standard</p>	√
Genotype	Positive	 <p>By sanger sequencing</p>	√
%AF	66.67%	66.19% 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:****