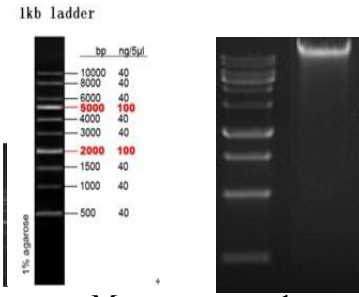
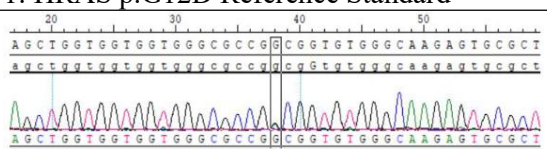


CERTIFICATE OF ANALYSIS

Product information

Name	HRAS p.G12D Reference Standard
Catalog No.	CBP10288
Lot No.	CBFA23060705
Format	Genomic DNA
DNA Change	c.35G>A
AA Change	p.G12D
Mutation Type	Substitution - Missense
Zygoty	Heterozygous
%AF	50.00%
Transcript	ENST00000397596
Chr position(GRCh37)	chr11:534288
Copy Number	2
Ploidy	2.6
Buffer	Tris-EDTA
Storage Conditions	4°C
Date of Manufacture	2023/06/07
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%	42.30 ng/uL by Qubit 3.0 detection	√
OD ₂₆₀ /OD ₂₈₀	1.7~2.1	1.94 by Nanodrop detection	√
DNA electrophoresis	No Degradation	 <p>M: Marker 1: HRAS p.G12D Reference Standard</p>	√
Genotype	Positive	 <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:****