Panel-Ref® gDNA Cocktail Ⅶ Reference Standard

CBP90016

I. Description

Panel-Ref® gDNA Cocktail VII Reference Standard includes important sites of common genes, involving 14 gene CNV sites such as EGFR/BRAF/PIK3CA/ERBB2/KRAS/NRAS/IDH1/CD74-ROS1/MET, covering multiple variant types such as SNP Ins Del Translocation CNV, MSI-H status, variant frequency 5%, CN=6, and dPCR calibration.

II. General information

Name	Panel-Ref® gDNA Cocktail VII Reference Standard
Cat. No.	CBP90016
Format	Genomic DNA
Size	1ug/vial * 1 vial
Intended Use	Research Use Only
Buffer	Tris-EDTA
Storage Conditions	2-8°C
Expiry	36 months from the date of manufacture

III.Technical Data

Gene	AA Change	CDS Change	Exon	Cosmic ID	Expected AF	Chr position (GRCh37)
EGFR	p.E746_A750del	c.2236_2250del15	19	COSM6225	5.00%	chr7:55242466_55242480
EGFR	p.S768I	c.2303G>T	20	COSM6241	5.00%	chr7:55249005
EGFR	p.L861Q	c.2582T>A	21	COSM6213	5.00%	chr7:55259524
MET	CNV	Amplification	N/A	N/A	CN=6	N/A
ERBB2	p.A775_G776insYVMA	c.2324_2325ins12	20	COSM12558	5.00%	chr17:37880996_37880997
KRAS	p.G12V	c.35G>T	2	COSM520	5.00%	chr12:25398284
PIK3CA	p.E542K	c.1624G>A	10	COSM760	5.00%	chr3:178936082
KRAS	p.Q61H	c.183A>C	3	COSM554	5.00%	chr12:25380275
BRAF	p.V600E	c.1799T>A	15	COSM476	内源突变	chr7:140453136
PIK3CA	p.H1047R	c.3140A>G	20	COSM775	内源突变	chr3:178952085
EGFR	p.G719C	c.2155G>T	18	COSM6253	5.00%	chr7:55241707
CD74-ROS1	E6-E34	DNA Translocation	N/A	COSF1200	5.00%	N/A
NRAS	p.Q61K	c.181C>A	3	COSM580	5.00%	chr1:115256530
IDH1	p.R132C	c.394C>T	4	COSM28747	5.00%	chr2:209113113

Ⅳ.MSI Inspection Data

CBP90016 MSI-H			
Marker	Size 1	Size 2	Size 3
NR21	120.56	130.55	
Bat26	164.90	175.20	
PentaC	229.59		
Bat25	109.35		
NR27	141.76	155.09	
PentaD	177.21	181.70	186.56
Amel	106.75		
NR24	124.88	128.37	131.97
Mono27	161.52	170.82	