

# gDNA Standards



Contain multiple popular cancer-related genetic variants



Product Code	Product Name	Format	Specification	Shelf Life
GW-OGTM001	Onco Structural Multiplex 5% gDNA Reference Standard	gDNA	30ng/μL, 1μg/ tube	36 months (2-8°C)
GW-OGTM004	Onco SNV 1-25% gDNA Reference Standard	gDNA	30ng/μL, 1μg/ tube	36 months (2-8°C)
GW-OGTM005	Onco Wild Type gDNA Reference Standard	gDNA	30ng/μL, 5μg/ tube	36 months (2-8°C)
GW-OGTM006	Onco SNV Multiplex 5% gDNA Reference Standard II	gDNA	30ng/μL, 1μg/ tube	36 months (2-8°C)

## Comprehensive reference material to help with

Assay accuracy

Repeatability

Robustness

LOD determination

Workflow performance

Cancer panel assessment

Platform comparison

## Quality Control

Testing Items	Test Method	Interquality Standard
Allelic Frequency and Copy Number	QX200 Droplet Digital™ PCR+ddPCR Supermix for Probes (No dUTP) (BIO-RAD)	AF=0%, accepted range $\leq 0.1\%$ ; AF <5%, accepted range = $\pm 30\%$ 5% $\leq$ AF < 10%, accepted range = $\pm 20\%$ ; AF $\geq 10\%$ , accepted range = $\pm 10\%$ ; Copy number < 5, accepted range = $\pm 30\%$ ; 5 $\leq$ copy number < 10, accepted range = $\pm 20\%$
Concentration	Qubit 4.0 Fluorometer+ Qubit dsDNA BR Assay Kit (Thermo Fisher Scientific)	30 ng/μL $\pm 15\%$ (25.5~34.5ng/μL)
Agarose gel electrophoresis	1.0% Agar gel (Sangon Biotech)	1 Bright band of high molecular weight

## Onco Wild Type gDNA Reference Standard Sites Information

AKT1 E17K	BRAF V600E	EGFR G719S	EGFR L858R	EGFR T790M	EGFR A767_V769dup	EGFR E746_A750del	FLT3 I836del
KIT D816V	KRAS A146T	KRAS G12D	KRAS G13D	NRAS Q61K	PIK3CA E545K	PIK3CA H1047R	CD74(6)-ROS1(34)
EML4(6)-ALK(20)	EML4(13)-ALK(20)	KRAS G12C	KRAS G12V	EGFR L861Q	EGFR S768I	KRAS G12S	KRAS G12R
KRAS G12A	ERBB2 Amplification	MET Amplification	EGFR G719A	ERBB2 Y772_A775dup	MET Exon 14 Skipping	FGFR3 Y375C	NRAS Q61R

## GW-OGTM001 Onco Structural Multiplex 5% gDNA Reference Standard

Mutation Type	Mutation	AF
SNV	AKT1 E17K	5.0%
SNV	PIK3CA E545K	5.0%
Insertion	EGFR A767_V769dup	5.0%
Deletion	EGFR E746_A750del	5.0%
Fusion	CD74(6)-ROS1(34)	5.0%
Fusion	EML4(6)-ALK(20)	5.0%
CNV	MET Amplification	3.5 copies
CNV	ERBB2 Amplification	7.0 copies

## GW-OGTM004 Onco SNV 1-25% gDNA Reference Standard

Mutation Type	Mutation	AF
SNV	BRAF V600E	10.5%
SNV	EGFR G719S	24.5%
SNV	EGFR L858R	3.0%
SNV	EGFR T790M	1.0%
Deletion	EGFR E746_A750del	2.0%
SNV	KRAS G12D	6.0%
SNV	KRAS G13D	15.0%
SNV	NRAS Q61K	12.5%
SNV	PIK3CA E545K	9.0%
SNV	PIK3CA H1047R	17.5%

## GW-OGTM006 Onco SNV Multiplex 5% gDNA Reference Standard II

Mutation Type	Mutation	AF
SNV	BRAF V600E	8%
SNV	EGFR L858R	5%
Deletion	EGFR E746_A750del	5%
SNV	EGFR T790M	5%
SNV	EGFR G719A	5%
Insertion	EGFR A767_V769dup	5%
SNV	KRAS G12C	5%
SNV	KRAS G13D	5%
SNV	NRAS Q61R	5%
SNV	PIK3CA H1047R	5%
SNV	PI3KCA E545K	5%
SNV	MET Exon 14 Skipping	5%
Insertion	ERBB2 Y772_A775dup	5%
SNV	FGFR3 Y375C	5%



GeneWell Biotechnology Co., Ltd

Technical support : +86 755 2516 7057

E-mail : customerservice@gene-well.com

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Add : Room 802, Unit 3, Building 1, Dabaihui Life and Health Industrial Park, No. 2028, Shenyang Road, Tiandong Community, Haishan Street, Yantian District, Shenzhen, 518081 Guangdong, P.R. China



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