

Multiplex gDNA Reference Standards

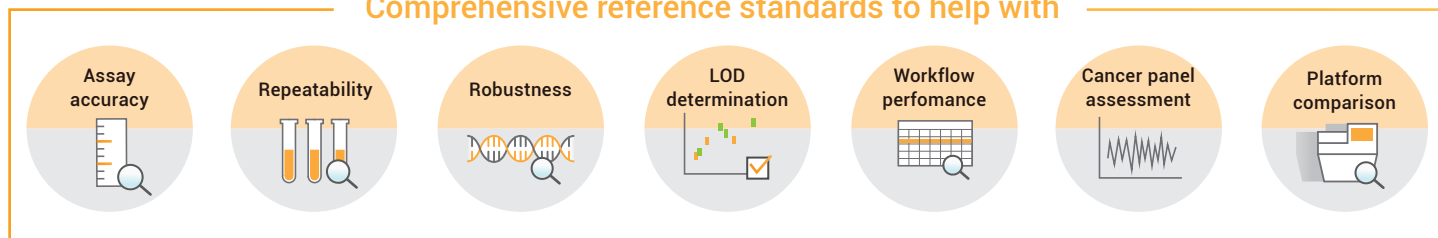


Multiplex cancer-related reference standards with various mutation types and AFs.



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

Comprehensive reference standards to help with



Onco Wild Type gDNA Reference Standard Sites Information

Wildtype product can be used as matched negative controls for other GeneWell gDNA reference standard.

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

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

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

Variants	Variant Type	Expected AFs (%)
BRAF V600E	SNV	10.5%
EGFR G719S	SNV	24.5%
EGFR L858R	SNV	3.0%
EGFR T790M	SNV	1.0%
EGFR E746_A750del	Deletion	2.0%
KRAS G12D	SNV	6.0%
KRAS G13D	SNV	15.0%
NRAS Q61K	SNV	12.5%
PIK3CA E545K	SNV	9.0%
PIK3CA H1047R	SNV	17.5%

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

Variants	Variant Type	Expected AFs (%)
BRAF V600E	SNV	8%
EGFR L858R	SNV	5%
EGFR E746_A750del	Deletion	5%
EGFR T790M	SNV	5%
EGFR G719A	SNV	5%
EGFR A767_V769dup	Insertion	5%
KRAS G12C	SNV	5%
KRAS G13D	SNV	5%
NRAS Q61R	SNV	5%
PIK3CA H1047R	SNV	5%
PIK3CA E545K	SNV	5%
MET Exon 14 Skipping	SNV	5%
ERBB2 Y772_A775dup	Insertion	5%
FGFR3 Y375C	SNV	5%

Quality Control

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

